

# 2018 APPLICATION GUIDE

## SCI RESEARCH ON THE TRANSLATION SPECTRUM

Craig H. Neilsen Foundation



This guide provides information on the Craig H. Neilsen Foundation's Spinal Cord Injury Research on the Translational Spectrum (SCIRTS) grants. It is the Principal Investigator (PI)/Applicant's (hereafter referred to as "Applicant") responsibility to carefully review the current guidelines. Submissions that do not adhere to the most current guidelines, deadlines and/or required documentation will be disqualified without review.

| <b>CURRENT DEADLINES</b>                          |   |
|---|---|
| <b>May 12, 2017<br/>5:00 PM (Eastern Time)</b>    | Letter of Intent (LOI) Submission Due via proposalCENTRAL       |
| <b>August 2017</b>                                | Notification of LOI Results                                     |
| <b>October 6, 2017<br/>5:00 PM (Eastern Time)</b> | Full Grant Application (FGA) Submission Due via proposalCENTRAL |
| <b>February 2018</b>                              | Notification of FGA Results                                     |
| <b>July 2018</b>                                  | Awarded Grants to be Funded                                     |

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# PART 1: OVERVIEW OF GRANT FUNDING CATEGORIES

## A. About the Neilsen Foundation

The Craig H. Neilsen Foundation was established in 2002 as a private foundation dedicated to spinal cord injury (SCI) research and quality of life programs for people living with SCI. Mr. Neilsen lived with a high level spinal cord injury for 21 years until his passing in 2006. He was a visionary with an entrepreneurial spirit who led his companies with inexhaustible passion. Craig Neilsen wanted his foundation to contribute in a significant way to SCI research and to offer those with SCI the quality of life they deserve.

### Mission

Craig H. Neilsen Foundation's funding is dedicated to supporting both programs and scientific research to improve the quality of life for those affected by and living with spinal cord injury.

### Vision

Individuals with spinal cord injuries, and those who care for them, live full and productive lives as active participants in their communities.

### Values

Our values are inspired by our Founder, Craig Neilsen, who overcame barriers during his lifetime, empowered others to do the same, and created this organization to impact the field today and expand solutions for tomorrow. We value excellence, leadership, accountability, innovation, and collaboration.

## CRAIG H. NEILSEN FOUNDATION SCI FUNDING PORTFOLIOS

### Research Grants:

- Spinal Cord Injury Research on the Translational Spectrum (SCIRTS): The goal of the portfolio is to address gaps in the field and advance novel approaches to improving function and developing curative therapies after SCI. This research is designed to improve understanding and advance the treatment of acute and chronic SCI and includes mechanistic, preclinical, translational and/or clinical studies.
- Psychosocial Research (PSR): The goal of the portfolio is to develop sound data to inform and disseminate best practices that produce better outcomes, improving quality of life for people living with SCI. This research explores the interrelation of behavioral, social and psychological factors that influence participation, health practice, lifestyle, and support systems in community and clinical settings.

### Programmatic Grants:

- Creating Opportunity & Independence (CO&I): The goal of the portfolio is to enhance quality of life for individuals and their families living with SCI through grants to support innovative programs/projects that improve participation and independence. Areas of focus include: assistive technology, education, employment, independent living, rehabilitation, and arts, sports and recreation.

### Education Grants:

- Spinal Cord Injury Medicine Fellowships (SCIMF): The goal of the portfolio is to support clinical training and to ensure that a sufficient number of physicians are attracted to the field to meet the needs of patients with SCI. Fellowships are awarded to ACGME-accredited programs to train physicians specifically in the field of SCI care.

- Neilsen Scholarship Program (NSP): The goal of the portfolio is to support students with SCI in their pursuit of higher education. Funding to selected academic institutions provides scholarships to qualified students in the curriculum of their choice. The Neilsen Foundation supports tuition, fees, books, as well as providing supplemental support funds to remove barriers to academic progress related to the students' SCI-associated needs.

Please visit the Neilsen Foundation website at [www.chnfoundation.org](http://www.chnfoundation.org) for application guides, deadlines and information on previously funded grants.

## **B. SCIRTS Portfolio Funding**

### **PORTFOLIO SPECIFIC OBJECTIVES**

The Neilsen Foundation funds projects that are designed to improve and advance current treatments for acute and chronic spinal cord dysfunction. This portfolio emphasizes SCI (vs. spinal cord disease or related disorders) and is intended to fill gaps in the field and to further develop new strategies to restore function resulting from SCI. The Neilsen Foundation does not intend to provide continuous funding to individual labs but to fund novel research throughout the translational spectrum.

SCIRTS Grants support research projects that include, but are not limited to, the following areas:

Mechanistic Research, including development of novel strategies aimed at:

- Neuroprotection and/or elucidation of the pathological mechanisms that occur after SCI;
- Pathophysiology of the injured spinal cord;
- Promotion of neuronal survival, axonal regeneration, synaptogenesis, myelination, and functional connectivity after SCI;
- Transplantation strategies for SCI;
- Pharmacological therapies to improve function after SCI;
- Bioengineering solutions to improve function in persons with SCI; and
- Chronic SCI and issues related to aging with SCI.

Preclinical, Translational Research that will enable future clinical trials, such as:

- The effects of SCI and novel interventions on gait, reflexes and muscle;
- Use of preclinical models of SCI to develop interventions to alleviate complications of SCI including: bowel, bladder, sexual and other autonomic dysfunctions, respiratory dysfunction, neuropathic pain, pressure sores, osteoporosis and the effects of aging with SCI; and
- Trial-enabling studies to confirm the mechanism of action for novel treatment procedures.

Clinical Research, such as:

- Studies to establish the natural history and progression of functional outcomes over time after SCI;
- Efforts to develop and validate outcome measures needed to facilitate definitive clinical trials in SCI populations; and
- Testing of innovative rehabilitation strategies and devices in persons with SCI.

NOTE: Early phase clinical trials of novel investigational drug or cell/biologic interventions under regulation by the U.S. Food and Drug Administration are limited to the Senior Grant category. Postdoctoral fellows may participate in an approved trial supported by the Mentor's other funding.

This Application Guide is intended specifically for the following grant funding categories:

- SCIRTS Postdoctoral Fellowships
- SCIRTS Pilot Research Grants
- SCIRTS Senior Research Grants

## C. Eligibility and Other Requirements

### ELIGIBILITY

The following applies to all funding categories:

- Applicants must have a doctoral degree or an equivalent terminal professional degree (e.g., PhD, MD, DVM). Non-fellowship applicants must demonstrate appropriate experience to serve as an **independent Principal Investigator (PI)**. The Neilsen Foundation encourages submissions from eligible PIs who represent a wide range of disciplines; however, it is required that **relevant SCI expertise** is represented on the proposed research project team.
- The grantee must be a **nonprofit academic/research institution or rehabilitation facility located in the United States or Canada** with a demonstrated capability to conduct grant-funded research.
- The PI is not required to be a citizen of the United States or Canada; however, the PI must be employed by an eligible grantee institution. Each application must include the appropriate endorsement of an institutional official who is responsible for the administration of grant funds (hereafter known as the “Grants Administrator”).
- Neilsen Foundation grants are not awarded to individuals, private foundations or certain 509(a)(3), Type III supporting organizations.
- The PI/Applicant named in a grant application must be deemed eligible by his/her institution/organization to apply for a grant, and is expected to be responsible for conduct of the research.
- A PI may only submit one application in a given portfolio cycle (see FINAL REPORT section under PART 2, SECTION C., Full Grant Application (FGA) Submission, below).
- The Neilsen Foundation does not allow Co-Principal Investigators or Co-Investigators on its research grants. If two or more investigators are working together on a research project, one must serve as the PI; the other(s) should be listed as collaborator(s).
- Multiple PIs from an institution may submit concurrent, independent applications in a given grant cycle. In such cases, each project must be distinct, with non-overlapping Aims.
- The Neilsen Foundation discourages Postdoctoral Fellows and their mentor(s) from submitting concurrent applications *with overlapping Aims* to multiple funding categories within this portfolio.
- It may not be necessary to provide preliminary data. Neilsen Foundation funding may be sought to allow the PI to obtain data to establish a line of research if the proposal provides strong rationale (e.g., support from the literature or use in an indication other than SCI) that justifies testing the hypotheses with the proposed experimental design. However, if feasibility issues add unacceptable risk of failure, reviewers may note that preliminary data to address this risk should be provided.

## OTHER REQUIREMENTS

- All application materials and communications (including IRB/IACUC approvals, where applicable) must be written in English and budgets must be in U.S. dollars.
- Applicants should carefully review additional requirements specific to each funding category (see instructions below) to ensure they meet the relevant, specific requirements before submitting either a Letter of Intent (LOI) or Full Grant Application (FGA).
- Grants from the Neilsen Foundation may be multi-year awards. Funding for each subsequent year will be contingent on a favorable review of an annual progress and expenditure report. Approval of a final research and final expenditure report will be required at the end of the grant term to receive final payment.
- Perceived or real conflicts of interest (e.g., shareholder in a company providing a device for a study or program) must be disclosed in all stages of the application process.
- The grantee institution/organization will retain title to Intellectual Property developed through the study or program/project.
- Human interventional studies funded by the Neilsen Foundation are required to register on [ClinicalTrials.gov](http://ClinicalTrials.gov).
- The Neilsen Foundation encourages data sharing and open access. Grantees are asked to make all scientific reports openly accessible (through the journal website or PubMed Central) no later than one year after publication.

## SCIRTS POSTDOCTORAL FELLOWSHIPS

### Overview:

- This funding is designed to encourage specialization in the field of SCI; Fellowships are intended to provide mentored training in SCI research to early-career investigators. The Fellowship Applicant (Fellow) should be mentored (or co-mentored) by an investigator experienced in SCI research.
- Fellows must have attained their doctoral degree or an equivalent terminal professional degree by the LOI submission deadline and have held that degree no longer than five years prior to the FGA submission deadline. For Fellows with an MD, the five-year eligibility period begins after completion of the residency program.
- Criteria for Fellowships include: qualifications of the Fellow, how the training plan and environment provided by the mentor(s) will enhance the Fellow's research career, scientific merit of the proposal, and relevance of the project to the Neilsen Foundation and the SCIRTS portfolio.
- A two-page Training Plan is required when submitting an FGA.
- Funding for Fellowships is \$75,000 per year, for up to two years; \$150,000 total costs.

### Details for This Funding Category:

- Postdoctoral Fellowships are intended to directly support the Fellow. The proposal should be written by the Fellow, with input from the mentor(s).

- **Personnel Costs:** Funding is designated primarily for the salary plus fringe benefits of the Fellow. No funding for other personnel (e.g., technical staff) is allowed.
- **Non-Personnel Costs:** The purpose of allowing non-personnel costs in this category is to support the advancement of the Fellow's career. Non-personnel costs may be budgeted to further the Fellow's development in SCI research. The Neilsen Foundation will allow up to \$30,000 over the course of the two-year grant for non-personnel costs, provided total costs do not exceed \$75,000 per year. It is expected that the mentor(s) will make available necessary general office equipment and supplies; however, funds for travel, publication costs, supplies and/or equipment can be expended in the categories listed below.
  - **Travel:** Funds may be used for professional development-related travel for the Fellow. Travel for other personnel is not allowed.
  - **Publication Costs:** Funds may be used to develop the Fellow's manuscript preparation skills. Publication costs are allowed where the Fellow is a contributing author. Allowable costs include open access fees.
  - **Supplies:** All project-related items (e.g., glassware, chemicals, animal costs, electrodes, etc.) other than those described below in Equipment are allowed. A computing device or computer software is considered a supply if the acquisition cost is less than \$5,000, regardless of the length of its useful life.
  - **Equipment:** An item having a useful life of more than one year and an acquisition cost of \$5,000 or more per unit is considered equipment. All requests must be justified by including a description of how the piece of equipment will support the advancement of the Fellow's career.
- **Indirect Costs:** The Neilsen Foundation does not allow indirect costs (i.e., administrative, overhead, per capita infrastructure costs, etc.) on its Postdoctoral Fellowships.

## SCIRTS PILOT RESEARCH GRANTS

### Overview:

- Intended to support pilot studies that lay essential groundwork, allow the PI to test the feasibility of novel methods and procedures and/or collect new data that can lead to or enhance larger-scale studies.
- Applicants must have a doctoral degree or other equivalent terminal professional degree, be beyond the postdoctoral level (i.e., Instructor, Assistant Professor or equivalent research position) at the time of the FGA submission, and demonstrate appropriate experience to serve as an independent PI.
- Criteria for Pilot grants include the scientific merit of the project, the innovative nature of the proposed research and the likelihood that success will move the SCI field forward.
- Funding for Pilot grants is \$150,000 per year, for up to two years; \$300,000 total costs.

### Details for This Funding Category:

- PIs must be independent investigators, employed at the grantee institution at the time of FGA submission, and can be at any stage of their research career.

- Junior investigators should demonstrate evidence of a strong research background that is relevant to the proposed study. If the PI is not in a tenure track research or equivalent research/clinical position, a letter co-signed by the responsible supervisor (e.g., Director or Department Chair) and the Grants Administrator must be provided. The letter must indicate that the applicant is an independent investigator and that necessary space and equipment are available for this research, and be submitted with both the LOI and FGA (the same letter may be submitted at both stages).
- Established investigators' proposals should demonstrate a new direction in SCI research that is considered "high risk" balanced by high potential impact. When a strong justification that preliminary data are needed to establish this new direction, a Pilot grant is the appropriate category.

Allowable budget categories include:

- PI Salary: The amount requested for the PI's support (salary plus fringe benefits) may be up to 15% of the total costs of the grant. For example, if an applicant requests \$300,000, the maximum PI support allowed is \$22,500 per year (\$45,000 total).
- Collaborator(s): A collaborator is an individual who will make a significant contribution or play a significant role in the conduct of the research project. In most cases, the collaborator provides a certain expertise, such as a specific type of SCI research experience. Collaborators do not need to be affiliated with the same institution as the PI; a subcontract may be used to support a collaborator at a different institution. Collaborators named in the proposal may be paid or unpaid. If paid, the total amount requested for each collaborator's support (salary plus fringe benefits) should not exceed 10% of the total yearly cost of the grant. Support for collaborators beyond this limit may be requested, with strong justification.
- Other Personnel: This category includes other key project staff (e.g., project coordinator, statistician, community interviewer, etc.) who will contribute directly and substantively to the project. The Neilsen Foundation *does not* fund graduate student tuition or fees; however, stipends/salaries for graduate students can be included. There is no restriction on the percentage of support for other positions.
- Consultants: Consultant costs are allowed and there is no limit on the amount requested. Consultants are generally independent contractors who offer advice or work on specific aspects of a project for a limited period of time.
- Subcontractors: A subcontract may be established by the grantee institution with another site to carry out selected activities of the proposed project. If a subcontract is included in the grant, the combined indirect cost amount for the PI's institution *and* the subcontractor's institution may not exceed 10% of the total direct costs.
- Supplies: All project-related items (e.g., glassware, chemicals, animal costs, electrodes, etc.) other than those described below in Equipment are allowed. A computing device or computer software is considered a supply if the acquisition cost is less than \$5,000, regardless of the length of its useful life.
- Equipment: Requests for equipment are not encouraged but are allowed if justification is provided. An item having a useful life of more than one year and an acquisition cost of \$5,000 or



more per unit is considered equipment. Equipment cannot exceed \$10,000 for the two-year project.

- **Travel:** Support for conference travel is limited to \$6,000 during the grant term. Adequate justification is required for any additional project-related travel support (e.g., research participant travel, travel to a collaborating site, etc.).
- **Publication Costs:** Up to \$4,000 is allowed during the grant term. Allowable costs include open access fees.
- **Indirect Costs:** The maximum amount allowed for indirect costs (i.e., administrative, overhead, per capita infrastructure costs, etc.) is 10% of the total cost. For example, if an applicant requests \$300,000, the maximum total *indirect cost* allowed is \$15,000 per year.
- **Per Capita Infrastructure Costs:** These costs cannot be charged as direct costs (e.g., IT, network, communications or other charges not specific to the research Aims); indirect costs may be used to defray these charges, subject to the 10% of total indirect cost cap.

## SCIRTS SENIOR RESEARCH GRANTS

### Overview:

- Focuses on highly innovative projects by established PIs to explore new areas of SCI research or fill important gaps in the SCI field. The goal is not to substitute for federal funding, but to use Neilsen Foundation funds to encourage cutting-edge ideas and approaches that have great potential, despite some additional risk. The importance of the research goal should balance the risk due to the early stage of innovation.
- This funding opportunity is for individuals who are senior, independent investigators (equivalent to Associate Professor or above), employed at the grantee institution, at the time of the FGA submission.
- Criteria include the innovative nature of the proposed research, the likelihood that success will move the field forward, and a history of productivity and significant contributions by the investigator. Applicants should carefully consider their qualifications and the relevance of their Aims to the Neilsen Foundation before applying for a Senior Research Grant.
- Funding for Senior grants is \$200,000 per year, for up to three years, \$600,000 total costs.

### Details for This Funding Category:

Allowable budget categories include:

- **PI Salary:** The amount requested for the PI's support (salary plus fringe benefits) may be up to 15% of the total costs of the grant. For example, if an applicant requests \$600,000, the maximum PI support allowed is \$30,000 per year (\$90,000 total).
- **Collaborator(s):** A collaborator is an individual who will make a significant contribution or play a significant role in the conduct of the research project. In most cases, the collaborator provides a certain expertise, such as a specific type of SCI research experience. Collaborators do not need to be affiliated with the same institution as the PI; a subcontract may be used to support a collaborator at a different institution. Collaborators named in the proposal may be paid or unpaid. If paid, the total amount requested for each collaborator's support (salary plus fringe

benefits) should not exceed 10% of the total yearly cost of the grant. Support for collaborators beyond this limit may be requested, with strong justification.

- **Other Personnel:** This category includes other key project staff (e.g., project coordinator, statistician, community interviewer, etc.) who will contribute directly and substantively to the project. The Neilsen Foundation *does not* fund graduate student tuition or fees; however, stipends/salaries for graduate students can be included. There is no restriction on the percentage of support for other positions.
- **Consultants:** Consultant costs are allowed and there is no limit on the amount requested. Consultants are generally independent contractors who offer advice or work on specific aspects of a project for a limited period of time
- **Subcontractors:** A subcontract may be established by the grantee institution with another site to carry out selected activities of the proposed project. If a subcontract is included in the grant, the combined indirect cost amount for the PI's institution *and* the subcontractor's institution may not exceed 10% of the total direct costs.
- **Supplies:** All project-related items (e.g., glassware, chemicals, animal costs, electrodes, etc.) other than those described below in Equipment are allowed. A computing device or computer software is considered a supply if the acquisition cost is less than \$5,000, regardless of the length of its useful life.
- **Equipment:** Requests for equipment are not encouraged but are allowed if justification is provided. An item having a useful life of more than one year and an acquisition cost of \$5,000 or more per unit is considered equipment. Equipment cannot exceed \$10,000 for the two-year project.
- **Travel:** Support for conference travel is limited to \$9,000 during the grant term. Adequate justification is required for any additional project-related travel support (e.g., research participant travel, travel to a collaborating site, etc.).
- **Publication Costs:** Up to \$6,000 is allowed during the grant term. Allowable costs include open access fees.
- **Indirect Costs:** The amount allowed for indirect costs (i.e., administrative, overhead, per capita infrastructure costs, etc.) is 10% of the total cost of the grant. For example, if an applicant requests \$600,000, the maximum total *indirect cost* allowed is \$20,000 per year.
- **Per Capita Infrastructure Costs:** These costs cannot be charged as direct costs (e.g., IT, network, communications or other charges not specific to the research Aims); indirect costs may be used to defray these charges, subject to the 10% of total direct cost cap.

## **PART 2: LOI AND FGA APPLICATION PROCESS**

### **A. Application Submission Process**

For each cycle, the application process begins with an LOI. FGAs will only be accepted from PIs/Applicants invited through the most recent LOI competition.

The Neilsen Foundation uses the web-based grants system, proposalCENTRAL (<https://proposalCENTRAL.altum.com>), to review and manage its grants.

## TIMELY SUBMISSION

All application deadlines, dates and times are strictly enforced. The online system, proposalCENTRAL, will automatically close at the cycle's stated deadline date and time.

We strongly recommend that you begin the application process on proposalCENTRAL well in advance of all deadlines. *Late submissions will not be considered.*

**NOTE:** Do not wait until the last day to submit your grant application and any required documentation. Technical difficulties will not be accepted as an explanation for late submissions.

## NEILSEN FOUNDATION TEMPLATES

The Neilsen Foundation requires that all Applicants use the most recent templates provided on proposalCENTRAL for the LOI and FGA processes. *It is important to note that Applicants **may not modify** any Neilsen Foundation template.* Examples of disallowed modifications include changing margins, deleting template text (including instructions), changing form font sizes, etc. **If an Applicant modifies or fails to use a current Neilsen Foundation template or exceeds page limits, the LOI or FGA will automatically be disqualified for the current cycle.**

**NOTE FOR MAC USERS:** All Neilsen Foundation documents are created in Microsoft Word. Mac users may experience difficulties; it is strongly recommended that Applicants allow ample time to create and submit proposal materials. If you experience difficulty with the templates, contact your local IT support.

## PDF ATTACHMENTS

All documents must be submitted as portable document format (PDF) attachments. If you need assistance in converting your documents to PDF, please access your proposalCENTRAL account and click on "FAQ" (located on the top right of your screen) to view "Converting Files to PDF." If you need further assistance, contact proposalCENTRAL Customer Support at (800) 875-2562 or via email at [pcsupport@altum.com](mailto:pcsupport@altum.com).

## APPLICANT CONTACT INFORMATION

Contact information entered on proposalCENTRAL must include a physical street address for the Applicant's institution/organization and a current email address for the PI/Applicant.

The Neilsen Foundation relies on contact information located on proposalCENTRAL to contact its applicants and grantees. In order to receive important updates, it is the PI/Applicant and grantee institution/organization's responsibility to keep his/her proposalCENTRAL contact information current. This includes current information for the institution/organization's grants administrator, signing official and financial officer.

The Neilsen Foundation recommends that Applicants check the 'Auto Notify' box in the "Enable Other Users to Access this Proposal" section in proposalCENTRAL, for at least one other contact at the institution/organization. The 'Permissions' access level for other contacts can be set as view, edit or administrator.

**NOTE:** If the contact information in proposalCENTRAL is outdated, and we are unable to contact you, we will assume that you are no longer interested in funding from the Neilsen Foundation. This includes all significant information, from notification of a grant award to reporting deadlines.

## **INFORMATION CONSISTENCY AND ACCURACY**

- Respond to all sections of the templates. If a section or question does not apply to your application, enter “N/A.”
- It is suggested that you carefully proofread all sections of your LOI or FGA materials for consistency and accuracy before submitting on proposalCENTRAL.
- The Applicant must verify that all documents that have been converted to PDF are legible.
- Inaccurate or incomplete submissions will be disqualified without review.

## **PROTECT YOUR PROPOSAL CENTRAL USERNAME AND PASSWORD**

To protect your account information, emails you receive from the proposalCENTRAL email system will no longer contain a link that includes Usernames and Passwords. If you need to forward any emails from earlier cycles to another individual, we recommend that you delete any confidential information that was previously included.

## **TECHNICAL ASSISTANCE**

For technical questions regarding the online submission process, contact proposalCENTRAL Customer Support at (800) 875-2562 or via email at [pcsupport@altum.com](mailto:pcsupport@altum.com), during business hours, Monday–Friday, 8:30 AM–5:00 PM (Eastern Time). *There is no technical support available on weekends or holidays.*

ProposalCENTRAL also has a tutorial section on its website that may be helpful in completing your application: <https://proposalCENTRAL.altum.com/help.asp> or click on the “Contact Us” link at the bottom of the page.

## **B. Letter of Intent (LOI) Submission**

### **DEADLINE**

Refer to page one of this Application Guide for the LOI deadline for this cycle. The proposalCENTRAL online submission system will automatically close at 5:00 PM (Eastern Time) on the due date. *Late submissions will not be considered.*

### **FORMAT**

All LOI applications must be submitted online, via proposalCENTRAL. The current LOI template on proposalCENTRAL (<https://proposalCENTRAL.altum.com>) must be used. Further instructions and page limitations will be provided on the LOI template. **All original text and formatting must remain on the submitted LOI application.**

### **REQUIRED INFORMATION TO INCLUDE IN THE LOI APPLICATION**

- Hypotheses and project Aim(s).
- Overview of the experimental design/methods.
- Relevance to the Neilsen Foundation.

- Brief preliminary budget for the entire project period. At the LOI stage, the budget should be broadly categorized. Eligible project costs, such as personnel, supplies, equipment, travel, etc., should directly support the project Aims.
- The Neilsen Foundation accepts submissions from eligible individuals across a wide range of disciplines; however, it is strongly encouraged that relevant SCI and technical expertise are represented on the project team.
- The PI must submit a Biosketch as described in the FGA section below. For Postdoctoral Fellowships, Biosketches are required for both the PI and mentor(s). Biosketches from any major collaborator who provides essential expertise are not required at the LOI stage, but are encouraged. Each Biosketch should be provided as a separate PDF.
- Applicants who are not in a tenure track research or equivalent research/clinical position must supply a co-signed letter indicating that the applicant is an independent investigator and that necessary space and equipment are available for this research (see description of funding categories, above). ***If this assurance is not provided, the LOI will not be considered.***
- Resubmissions: If the LOI is a first resubmission of a previously reviewed but not funded *FGA*, up to a half-page may be appended to the end of the LOI template to respond to reviewer comments; this half-page does not count in the three-page limit.
- A bibliography is not required at the LOI stage. If the PI chooses to provide references, these can be included as a single page appended at the end of the completed LOI template, in one PDF file.

## EVALUATION CRITERIA FOR LOI

LOIs will be reviewed by members of the Neilsen Foundation staff and external peer reviewers. This evaluation will be based on relevance of the proposed Aims to the Neilsen Foundation, potential impact to the field of SCI research, innovation and specific requirements of the funding category. Any notable issues in presentation or feasibility will be taken into consideration, along with the preliminary budget relative to the scope of the proposed project.

See Appendix 1 for a full list of LOI review criteria.

## NOTIFICATION OF LOI RESULTS

Applicants will be notified via email whether they are invited to submit an FGA, or if their LOI has been declined. An LOI must be approved by the Neilsen Foundation in order for the Applicant to move to the next step of the grants process, submitting an FGA.

## C. Full Grant Application (FGA) Submission

Only Applicants invited to apply through the current cycle's LOI process may submit an FGA. Refer to page one of this Application Guide for the FGA deadline for this cycle. All FGAs must be submitted online, via proposalCENTRAL. *The proposalCENTRAL system will not allow an application to be submitted until all required documents are uploaded.* The proposalCENTRAL system will automatically close at 5:00 PM (Eastern Time) on the due date. *Late submissions will not be considered.*

## FORMAT

The FGA template on proposalCENTRAL (<https://proposalCENTRAL.altum.com>) must be used for FGA submissions. Further instructions and page limitations will be provided on the application templates. The Neilsen Foundation application templates may not be modified by the Applicant.

**All original text and formatting must remain on the submitted application.**

## IMPORTANT NOTICE FOR FULL GRANT APPLICATIONS

On the proposalCENTRAL online application in the Proposal Section (located in the grey box on the left) press the “Print Signature Pages” button and ***print only page one (Grant Application) of the PDF file***. Once this page is signed by the PI/Applicant AND the Signing Official, upload the PDF on the “Proposal Narrative & Other Attachments” section.

It is important to view the uploaded documents to insure all PDFs are legible. In the online Proposal Section, return to “Print Signature Pages” and click on the “Print Signature Pages and Attached PDF Files” button to view the uploads.

## APPLICATION REQUIREMENTS

It is strongly advised that Applicants review additional instructions under Proposal Sections (grey box on the left) and templates provided on proposalCENTRAL. Please note the following:

### Postdoctoral Fellowships

At the FGA stage, Postdoctoral Fellowship applicants must provide: 1) a research plan; 2) a Biosketch for the Fellow; 3) a Biosketch for the mentor(s); 4) a Training Plan; 5) a letter of recommendation from the mentor(s); and 6) two additional recommendation letters.

- Letters of Recommendation

A letter of recommendation from the Fellow’s mentor is required. If the applicant has co-mentors, one letter of recommendation should be provided and signed by both mentors. Two other letters of recommendation must be submitted with the application. It is the Fellow’s responsibility to ensure that the letters of recommendation are submitted by the deadline. The Neilsen Foundation recommends that the Fellow notify his/her references of the deadline and follow up to be sure that the letters are submitted in a timely manner. The proposalCENTRAL system will not allow an application to be submitted until all three letters of recommendation have been uploaded.

- Postdoctoral Fellowship Training Plan

All postdoctoral applications **MUST** include a two-page Training Plan designed to enhance the postdoctoral experience through a program of structured activities focused on acquiring, expanding, and/or enhancing knowledge and expertise in SCI. The plan should delineate activities, opportunities and experiences that align with the Fellow’s long-term career goals. The Fellow’s contribution to the mentor’s research program(s) should also be addressed. Additional instructions are provided on proposalCENTRAL as a downloadable PDF document. The plan should be developed collaboratively by the Fellow and mentor(s). The Training Plan document must be signed by both the Fellow and mentor; if co-mentors are listed, their signatures or a letter indicating agreement should also be included. It is the Fellow’s responsibility to ensure that this document is **signed and submitted by the deadline**.

### **Junior Investigators**

Applicants who are not in a tenure track research or equivalent research/clinical position must supply a co-signed letter indicating that the Applicant is an independent investigator and that necessary space and equipment are available for this research (see description of funding categories, above). The same letter submitted with the LOI may be used in the FGA application as long as all information is current. ***If this assurance is not provided, the FGA will not be considered.***

### **Biosketch(es)**

The PI must submit a Biosketch using the NIH Biosketch format; no other Biosketch templates are allowed. Use of the personal statement to circumvent page limits by adding specific information on the proposed research plan is not allowed. **For Postdoctoral Fellowships**, the mentor(s) also **must** provide a Biosketch.

Biosketches for all collaborators and other key personnel must be submitted with the FGA. Key personnel are defined as the PI, collaborators and other individuals who contribute to the scientific development or execution of a project in a substantive, measurable way, whether or not salary or compensation is requested.

Each Biosketch must be provided as a separate PDF.

### **Subcontractors**

If the proposed research requires work to be carried out by another institution, the relationship must be disclosed in the Proposal Narrative and Budget sections of the application.

### **Other Research Support**

The PI and collaborators must provide information for all current and pending grants. **For Postdoctoral Fellowships**, both the Fellow *and* the mentor(s) must provide this information. Other key personnel are not required to provide other research support information.

After submitting an application, the PI is required to immediately notify the Neilsen Foundation if he/she submits an application to another funding source, or is notified by another funding source that his/her application has been **conditionally approved** for funding. **Failure to report other funding applications, pending or approved, will jeopardize the applicant's current Neilsen Foundation grant application status.**

## **EVALUATION CRITERIA FOR FGA**

FGAs are peer-reviewed by members of the Neilsen Foundation's Review Board and selected external reviewers. The critique and evaluation of an FGA will be based on scientific merit, innovation and relevance to the Neilsen Foundation. Reviewer comments and a summary statement, if applicable, will be available to the PI/Applicant after the current grant cycle results are announced. See Appendix 2, 3, and 4 for a list of FGA review criteria.

## **NOTIFICATION OF FGA RESULTS AND AWARD PROCESS**

The Neilsen Foundation will notify Applicants whether their application has been approved or declined for funding, via email, approximately four months after the FGA deadline. Only approved FGAs will proceed to the award process.

Applicants whose FGA is approved for funding will be required to submit additional documentation to the Neilsen Foundation before grant funds will be issued to the grantee institution/organization. The additional documentation will include but is not limited to: 1) signed Research Grant Agreement; 2) Grantee Verification of Tax-Exempt Status form along with a copy of the institution/organization's most recent IRS Determination letter; 3) Notice of Other Funding form; and 4) IRB/IACUC Approval Letter (see below). Instructions for executing the additional documentation will be included in the award notification, which will be emailed to the Applicant via the proposalCENTRAL correspondence link.

## **INSTITUTIONAL REVIEW BOARD/INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE APPROVALS**

Prior to receiving funding for an award, the PI must provide documentation of IRB/IACUC approval for use of human or animal subjects. For multicenter clinical studies, use of a single IRB of record or a central IRB is strongly encouraged.

Important: The IRB/IACUC approval letter must be on the institution's letterhead, in English or with an English translation provided. The approval letter must include the following: 1) name of the IRB or IACUC Chair; 2) expiration date of the approval; 3) PI's name (or mentor's name in the case of postdoctoral fellows); and 4) Neilsen Foundation project title. If the IRB/IACUC approval is for a broader protocol and the title on the approval letter differs from the Neilsen Foundation title, the letter must mention that the approval also covers the project funded by the Neilsen Foundation. If multiple IRB/IACUC approvals are required (e.g., multiple institutions), PIs must provide each approval letter as a separate PDF file.

## **NEILSEN FOUNDATION DUE DILIGENCE**

Per the 2006 Pension Protection Act, private non-operating foundations are required to verify the nonprofit status of all prospective grantee institutions/organizations. When submitting an application, the PI/Applicant will also need to provide the following:

### **United States-based** institutions/organizations:

- A copy of the institution/organization's IRS Determination letter that proves the institution/organization's 501(c)(3) designation or tax-exempt status under Internal Revenue Code 170(c)(1).
- *If the institution/organization is classified as a public charity under Section 509(a)(3), refer to IRS Notice 2006-109 (dated December 18, 2006) which is entitled "Interim Guidance Regarding Supporting Organizations and Donor Advised Funds." Per the IRS Notice, the institution/organization will be required to provide additional information as a Supporting Organization that is seeking a grant from a private foundation. The Neilsen Foundation cannot issue grants to certain 509(a)(3), Type III Supporting Organizations.*

### **Canadian-based** institutions/organizations:

- The Neilsen Foundation prefers to make grants to (i) a Canadian institution/organization that holds an IRS determination letter, or (ii) the Canadian institution/organization's U.S.-based "friends of" charity that holds a U.S. IRS determination letter. If the Canadian institution/organization can satisfy either of these requirements, it must provide a copy of the U.S. IRS Determination letter.



- If the grantee institution/organization does not have a U.S. IRS Determination letter or a U.S.-based “friends of” charity, the institution/organization must be a “registered charity” with the Canada Revenue Agency (CRA) and provide a copy of the page from the CRA website listing the institution/organization. *If a grant is approved for funding, the Neilsen Foundation will also require an “equivalency affidavit” proving that the Canadian institution/organization is the equivalent of a U.S. public charity.*

***Do not upload copies of tax returns, EIN letters, W-9s, internal documents noting the institution/organization’s nonprofit status, etc., in lieu of, OR in addition to, the IRS Determination letter. Only copies of the official IRS Determination letter will be accepted.***

## **DISBURSEMENT OF GRANT FUNDS**

Once the required documentation is received and approved by the Neilsen Foundation, and our due diligence process is complete, funds will be disbursed to the institution/organization by the start date of the grant.

## **FINAL REPORT**

At the end of the grant period, PIs/Applicants will be required to report on final progress and expenditures via proposalCENTRAL. Applicable templates are available on the Deliverables page. PIs/Applicants that do not comply with this requirement, or submit unsatisfactory reports, will not be eligible for future Neilsen Foundation funding until receipt of acceptable required report(s).

## **D. Resubmission of an FGA**

Applicants are permitted one resubmission of a revised FGA that was favorably reviewed but not funded in a prior grant cycle. A new LOI is required for the resubmission, but does not guarantee that the LOI will be invited to submit a revised FGA. The LOI must briefly indicate how the PI plans to respond to the previous critiques. This may be up to a half-page and is not counted in the standard LOI page limit.

If the original submission was a SCIRTS Pilot Research Grant, it cannot be “re-submitted” as a Senior Research Grant, which would require significant modification and expansion of the Aims and scope of the work. If the original submission was in the Senior category, it may be “re-submitted” as a Pilot grant, with similar Aims but decreased scope.

Aims that were unsuccessful in a resubmission may be submitted in a new grant application in a subsequent cycle, using the standard template (i.e., no response to reviewer comments). A new LOI is required and previous acceptance of similar Aims does not guarantee approval for invitation as an FGA.

## **E. Concurrent Grants Across Neilsen Foundation Portfolios**

- PIs/Applicants may hold only one Neilsen Foundation grant within a given portfolio at one time. A grantee must fulfill the obligations of a current grant, including submission of the Final Report and Final Expenditure Report, prior to the FGA deadline (see FINAL REPORT section, above).
- **For all Neilsen Foundation portfolios:** Non-trainee PIs/Applicants may apply for one grant per cycle per Neilsen Foundation portfolio (“SCIRTS,” “PSR” and “CO&I”), and may hold up to one

grant in each of the three portfolios at a time. Such applications will be evaluated independently, according to each program's timelines, guidelines and review criteria.

- **For Fellowship/Training grants:** Postdoctoral Fellows, by definition, are not in a position to apply for a non-training award and should be focused on a defined training program specific to the needs of their research interests. Therefore, Postdoctoral Fellows MAY NOT submit multiple training applications to different programs at any point in the LOI or FGA submission process.

## F. Additional Information

### APPLICATION SUBMISSION CONTACTS

- For technical questions regarding the online submission process, contact proposalCENTRAL Customer Support at (800) 875-2562 or via email at [pcsupport@altum.com](mailto:pcsupport@altum.com), during business hours, Monday–Friday, 8:30 AM–5:00 PM (Eastern Time). *There is no technical support available on weekends or holidays.*
- ProposalCENTRAL also has a tutorial section on its website that may be helpful in completing your application: <https://proposalCENTRAL.altum.com/help.asp> or click on the “Contact Us” link at the bottom of the page.
- For questions regarding a grant submission status, contact Ehrica Hernandez, Grants Management Associate, at [ehrica@chnfoundation.org](mailto:ehrica@chnfoundation.org).
- For questions regarding this portfolio contact BOTH: Linda Jones and Tracey Wheeler (SCIRTS Program Officers) at [linda@chnfoundation.org](mailto:linda@chnfoundation.org) and [tracey@chnfoundation.org](mailto:tracey@chnfoundation.org). For information about other Neilsen Foundation portfolios, visit our website, [www.chnfoundation.org](http://www.chnfoundation.org).

Note: The Neilsen Foundation strongly discourages Applicants from contacting any member of any Neilsen Foundation Review Board once an application has been submitted. Such contact will result in an automatic disqualification of the LOI or FGA.

# APPENDIX 1: 2018 LETTER OF INTENT REVIEW CRITERIA SCI RESEARCH ON THE TRANSLATIONAL SPECTRUM

Craig H. Neilsen Foundation



The Letter of Intent (LOI) review process is intended to identify those LOIs that should be invited to submit a full proposal. To that end, we look at general criteria that apply to all LOIs, specific criteria relevant to each category of applicant (Postdoctoral, Pilot and Senior) and, to a limited extent, scientific merit. **Your evaluation of an LOI should be based primarily on relevance to the Neilsen Foundation, innovation and gaps in the field of spinal cord injury (SCI); any notable feasibility issues** should also affect LOI scoring. As the LOI format does not allow PIs to provide a great deal of information on methodology, reviewers should not focus on experimental detail, which will be evaluated in the invited grant applications.

## **GENERAL CRITERIA**

1. The proposed research must be within the scope of the Spinal Cord Injury Research on the Translational Spectrum (SCIRTS) portfolio, which covers mechanistic research applied to SCI; pre-clinical and translational research; and clinical research. The portfolio is further defined in the Application Guide. If an LOI is not within this scope and is better suited to the Psychosocial Research (PSR) Program (studies the interrelation of behavioral, social and other quality of life factors that will benefit individuals living with SCI), the applicant should apply to the PSR program.
2. LOIs in which the template text or margins have been modified, or the page limits exceeded, will be rejected. The maximum allowable length is three pages (one tabular page, two of LOI text), not including references. An additional half-page is allowed for a resubmission of a previously reviewed but unfunded full grant application, specifically for a response to reviewer concerns.
3. Applicants must have a doctoral degree or an equivalent terminal professional degree at the time of the LOI submission. Undergraduates and predoctoral candidates are not eligible. Non-fellowship applicants must demonstrate appropriate experience to serve as an independent Principal Investigator (PI). The Neilsen Foundation encourages submissions from eligible PIs who represent a wide range of disciplines; however, it requires that relevant SCI expertise is represented on the proposed research team.
4. Applications must be from a nonprofit institution/organization located in the U.S. or Canada. If there are any questions about an institution/organization's status, contact Kim Cerise, Director of Grants Management ([kim@chnfoundation.org](mailto:kim@chnfoundation.org)).

## **PROGRAMMATIC CRITERIA**

### **IMPACT AND INNOVATION**

What is the likelihood that the project will exert a sustained, powerful influence in the field of SCI, based on the following criteria?

- **Significance**
  - The extent to which the project, if successful, will make an original and important contribution to research in SCI, including:
    - Does the study address an unsolved problem or important issue for persons with SCI?
    - Does the study have the potential to improve clinical practice or quality of life for persons with SCI and/or establish novel areas of investigations in this field?
    - Is the proposed research innovative versus incremental?
- **Relevance**
  - The extent to which the project is relevant to the Neilsen Foundation, the field of SCI, and stated goals of the grant program to which it is applied.

## **APPROACH**

The extent to which the conceptual framework provided for the studies to be proposed will test the stated hypotheses and is appropriate to the Aims of the project.

- **Feasibility**
  - Is the scope of work feasible within the project period, given the investigators' experience and expertise, past progress, and available resources?

## **RESEARCH DESIGN**

- **Hypothesis**
  - Are the hypotheses clearly stated?
  - Do the study objectives/Aims address the hypotheses?
- **PI/Preliminary Data**
  - Does the application support the PI's and other personnel's familiarity and competence with the proposed techniques, activities and issues relevant to SCI?
- **Research Plan**
  - Is the general design appropriate for solving the stated problems?
  - For clinical research: What is the scope and type of the planned study and is it likely to be feasible within the resources provided by the Neilsen Foundation program? Is it a randomized clinical trial of a novel drug or biologic (*not allowed for Pilot Grants*)?

## **PRESENTATION**

- Is the application clearly written, within the page limits and free of typographical errors?
- Are supporting materials (e.g., graphs, micrographs, etc.) legibly sized and used appropriately?

## **BUDGET**

- Is the initial budget estimate appropriate to the nature and scope of the study?

## **RESUBMISSIONS**

- At the LOI stage, applicants are allowed a half-page response to reviewer's comments from a previously reviewed full grant application (FGA). To view the previous reviewer comments, click on the blue "R" on the left side of the reviewer screen. Please note whether the applicant

has adequately indicated how they will respond to reviewer comments at the FGA stage in your review.

## **CATEGORY-SPECIFIC CRITERIA**

### **POSTDOCTORAL (\$150,000 over two years):**

1. Key evaluation criteria are: qualifications/strength of applicant, environment, mentorship (with SCI research experience), scientific/merit and Foundation relevance. Will this training period, mentor and project increase the skill set of the applicant to further their career path in SCI research?
2. Eligibility: doctoral degree completed by LOI submission date (May 12, 2017) but not to exceed five years by FGA deadline (October 6, 2017). Applicant must have completed their degree by October 6, 2012 or later. If the Biosketch only lists the month, any month on or after October 2012 is acceptable, any dates prior to that render the applicant ineligible.

### **PILOT (\$300,000 over two years):**

1. Key evaluation criteria are: strength of investigator, feasibility, innovation, and impact on the field.
2. This category is for relatively junior investigators (Instructor, Assistant Professor or equivalent research position at the time of the FGA) OR established investigators proposing high risk/high gain projects. Will this project help establish a junior PI's research program (if applicable)? If the PI is established, does the project have the potential for "high gain" to balance risk and/or develop key preliminary data?
3. If the applicant is not in a tenure track position, does the letter from the Director or Chair indicate that needed facilities are available and that the PI has reached a level of independence to undertake responsibility for completion of the proposed work?
4. Novel interventional drug/biologics trials are not allowed in the Pilot award category.

### **SENIOR (\$600,000 over three years):**

1. Key evaluation criteria are: strength of investigator (history of success/productivity), feasibility, innovation, and impact on the field. The extent to which this project proposes cutting-edge ideas and approaches that have great potential, despite some additional risk, or projects that are critical to the field that might be difficult to fund through other sources.
2. Applicant must be at the level of Associate Professor (at the time of the FGA) or above to be eligible.
3. This is the largest and most competitive award. Thus, LOIs in this category should represent unique opportunities to fill an important gap in the field, not funded by other agencies at this stage.

## **APPENDIX 2: 2018 POSTDOCTORAL FELLOWSHIPS CRITERIA SCI RESEARCH ON THE TRANSLATIONAL SPECTRUM**

Craig H. Neilsen Foundation



The main goal of Postdoctoral Fellowship Grants is to provide training opportunities. Funding for each year of the two-year project is up to \$75,000 for a maximum total of \$150,000.

### **OVERALL IMPACT**

After considering the review criteria, summarize the significant strengths and weaknesses of the application and state the likelihood that Neilsen Foundation funding of this project will allow this Fellow to become an important contributor to the field of SCI research.

### **SIGNIFICANCE**

1. If the Aims of the project are achieved, how will the postdoctoral fellow's scientific knowledge, technical capability, and/or clinical skills improve?
2. Does the project address an important problem or a critical barrier to progress in the field of SCI?
3. Does the proposal identify a significant research area, supported by appropriate evaluation of the literature?

### **RELEVANCE**

1. How is this project relevant to the Neilsen Foundation?
2. Does the proposal identify how this work will be translated to and/or the potential impact on, individuals with SCI?

### **INVESTIGATOR(S)**

1. Does the applicant have the potential to develop as an independent and productive scientist and does the research training plan provide individualized, supervised experiences and appropriate research skills to foster this development?
2. Is the applicant's research experience of high quality?
3. Are the PI and mentors/co-mentors' expertise well-suited to the proposed research?
4. Are the mentor's qualifications, including research support and track record of mentoring, appropriate for the proposed fellowship?
  - a. Is there evidence of a match between the research interests of the fellow and the mentor/sponsor?
  - b. Is there a demonstrated ability and commitment to assist in assuring the fellow's success?

### **INNOVATION**

1. Does the application challenge and seek to shift current research or clinical practice paradigms by utilizing novel theoretical concepts, approaches or methodologies, instrumentation, or interventions?

## **APPROACH**

1. Is the research plan of high scientific quality and does it relate to the applicant's training plan?
2. Are the overall strategies, methodologies, and analyses well-reasoned and appropriate to accomplish the specific aims of the project?
3. Are potential problems, alternative strategies, and benchmarks for success presented?
4. If the project involves clinical research, a) are the plans for protection of human subjects properly described? and b) are the plans for recruitment appropriate?

## **ENVIRONMENT**

1. Is the institutional environment for the scientific development of the fellow of high quality?
2. Are the research facilities, resources (e.g., equipment, laboratory space, computer time, subject populations), and training opportunities adequate and appropriate for the project as proposed?
3. Will the project benefit from unique features of the scientific environment, subject populations, or collaborative arrangements?

## **NON-SCORED CRITERIA**

Provide any important or relevant comments on each of the non-scored criterion below.

1. Budget
2. Ethics/Safety; protection of human subjects, including safety and data monitoring.
3. Other/Additional Comments for the Applicant
4. Resubmission: When reviewing a resubmission, the committee will evaluate the application as now presented, taking into consideration the responses to comments from the previous scientific review group and changes made to the project, but basing its final score on the overall merits of the current proposal.

## **APPENDIX 3: 2018 PILOT RESEARCH GRANTS CRITERIA SCI RESEARCH ON THE TRANSLATIONAL SPECTRUM**

Craig H. Neilsen Foundation



Neilsen Pilot Research Grants cultivate new lines of research and novel projects conducted by either new or established PIs. Funding for each year of the two-year project is up to \$150,000 for a maximum total of \$300,000.

### **OVERALL IMPACT**

After considering the review criteria, summarize the significant strengths and weaknesses of the application. Please state the likelihood that the project scope suits the Pilot funding level and will exert a powerful influence on the field of SCI research.

### **SIGNIFICANCE**

1. Does the project address an important problem or a critical barrier to progress in the field of SCI? Is the evaluation of the literature comprehensive and appropriate?
2. If the Aims of the project are achieved, how will scientific knowledge, technical capability, and/or clinical practice improve?
3. Will successful completion of the Aims change the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field? If so, how?

### **RELEVANCE**

1. How is this project relevant to the Neilsen Foundation?
2. Does the proposal adequately identify how this work would be translated to and/or the potential impact on, individuals with SCI?
3. For established investigators, is the proposal high risk/high gain? Does it pursue essential pilot data needed to obtain future funding?

### **INVESTIGATOR(S)**

1. Are the PIs, collaborators, and other researchers well-suited to the project? If the project involves clinical research a) is clinical expertise sufficient (PI and/or collaborators)? b) is clinical research training for other staff described and is it sufficient?
2. If the PI is an established investigator, has he/she demonstrated an ongoing record of accomplishments that have advanced the field(s)?
3. Or, if the PI is a junior investigator, does he/she have appropriate experience, training and facilities to do the proposed work? Will the work facilitate establishment of the PIs research program?

### **INNOVATION**

1. Does the application challenge and seek to shift current research or clinical practice paradigms? For example, does it utilize novel theoretical concepts, approaches or methodologies? Is the investigator incorporating ideas from another field?
2. For established investigators, is this a new direction for the PI?



## **APPROACH**

1. Are the overall strategies, methodologies, and analyses well-reasoned and appropriate to accomplish the specific aims of the project?
2. Are potential problems, alternative strategies, and benchmarks for success presented?
3. If the project is in the early stages of development, will the strategy establish feasibility and will particularly risky aspects be managed adequately?
4. If the proposal involves clinical research, does the project timeline include plans for study start-up time and sufficient subject recruitment?
  - a. Does the start-up plan adequately address regulatory approval, if required?
  - b. Will the National Institute of Neurological Disorders and Stroke, Common Data Elements be used? If not, is justification provided?

## **ENVIRONMENT**

1. Are institutional support, equipment and other physical resources available to the investigators adequate for the project proposed?
2. Will the project benefit from unique features of the scientific environment, subject populations, or collaborative arrangements?
3. For non-tenure track applicants: does the letter from the institution support the independence of the investigator and the availability of suitable facilities to conduct the work?

## **NON-SCORED CRITERIA**

Provide any important or relevant comments on each of the non-scored criterion below.

1. Budget
2. Overlapping Funding
3. Ethics/Safety; protection of human subjects, including safety and data monitoring.
4. Other/Additional Comments for the Applicant
5. Resubmission: When reviewing a resubmission, the committee will evaluate the application as now presented, taking into consideration the responses to comments from the previous scientific review group and changes made to the project, but basing its final score on the overall merits of the current proposal.

## **APPENDIX 4: 2018 SENIOR RESEARCH GRANTS CRITERIA SCI RESEARCH ON THE TRANSLATIONAL SPECTRUM**

Craig H. Neilsen Foundation



Senior grants focus on innovative projects by established contributors. Funding for each year of the three-year project is up to \$200,000 for a maximum total of \$600,000. The goal is not to substitute for federal funding, but to use Neilsen Foundation funding to encourage cutting-edge ideas and approaches that have great potential, despite some additional risk.

### **OVERALL IMPACT**

After considering the review criteria, summarize the significant strengths and weaknesses of the application and state the likelihood that Neilsen Foundation funding of this project will exert a sustained, powerful influence on the field of SCI research.

### **SIGNIFICANCE**

1. Does the project address an important problem or a critical barrier to progress in the field of SCI? Is the evaluation of the literature comprehensive and appropriate?
2. If the aims of the project are achieved, how will scientific knowledge, technical capability, and/or clinical practice improve?
3. Will successful completion of the aims change the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field? If so, how?

### **RELEVANCE**

1. How is this project relevant to the Neilsen Foundation?
2. Does the proposal adequately identify how this work will be translated to and/or the potential impact on, individuals with SCI?
3. Does Neilsen Foundation support of this project represent an exceptional opportunity (compared to federal or other funding)?

### **INVESTIGATOR(S)**

1. Are the PIs, collaborators, and other researchers well-suited to the project? If the project involves clinical research a) is clinical expertise sufficient (PI and/or collaborators)? b) is clinical research training for other staff described and is it sufficient?
2. Is the PI an established investigator who has demonstrated an ongoing record of accomplishments that have advanced the field(s)?
3. Is this study appropriate for the grant category, career level and experience of the PI?

### **INNOVATION**

1. Does the application challenge and seek to shift current research or clinical practice paradigms? For example, does it utilize novel theoretical concepts, approaches or methodologies? Is the investigator incorporating ideas from another field?
2. Is this a new direction for the PI?
3. Does the project fill an important research or translational gap? If so, how?

## **APPROACH**

1. Are the overall strategies, methodologies, and analyses well-reasoned and appropriate to accomplish the specific aims of the project?
2. Are potential problems, alternative strategies, and benchmarks for success presented?
3. If the project is in the early stages of development, will the strategy establish feasibility?
4. If the proposal involves clinical research, does the project timeline include plans for study start-up time and sufficient subject recruitment?
  - a. Does the start-up plan adequately address regulatory approval, if required?
  - b. Will the National Institute of Neurological Disorders and Stroke, Common Data Elements be used? If not, is justification provided?

## **ENVIRONMENT**

1. Are institutional support, equipment and other physical resources available to the investigators adequate for the project proposed?
2. Will the project benefit from unique features of the scientific environment, subject populations, or collaborative arrangements?

## **NON-SCORED CRITERIA**

Please provide any important or relevant comments on each of the non-scored criterion below.

1. Budget
2. Overlapping Funding
3. Ethics/Safety; protection of human subjects, including safety and data monitoring.
4. Other/Additional Comments for the Applicant
5. Resubmission: When reviewing a resubmission, the committee will evaluate the application as now presented, taking into consideration the responses to comments from the previous scientific review group and changes made to the project, but basing its final score on the overall merits of the current proposal.