

# SNS Neurosurgeon-Scientist Training Program (NSTP) Year 1 Application

## Background and General Program Structure

The Society of Neurological Surgeons has established a two-year Neurosurgeon-Scientist Training Program (NSTP) to increase the pool of neurosurgery residents conducting research and to enhance their success rate in becoming independent neurosurgeon-scientists. Additional research by clinician-scientist neurosurgeons is critical to the fundamental discovery that advances new methods of care and new cures. The NSTP will serve as a formal mentored research program for those neurosurgery residents who are beginning a protected research year or who have already completed their protected research year. The primary goal of this new program is to provide participants with the skills, mentorship, education, and experience needed to successfully compete for individual research funding (e.g., NIH K award and R01 grants) and launch productive research careers. Awardees have access to neurosurgeon-scientist mentors through a national network organization and will participate in the Annual NINDS R25 workshop.

Applicants will submit a written application to the program and be interviewed virtually by a selection committee. It is anticipated that up to 4-5 candidates per year will be selected based on the application process. Selected residents beginning their protected year of research in Year 1 of the NSTP program will be provided a travel stipend to attend the CNS and NINDS R25 neurosurgeon-scientist symposiums in the fall and spring, respectively. All those selected for support in Year 1 will be assigned a central NSTP mentor, who will work synergistically with the awardee's local mentor to guide the awardee. **All awardees who complete Year 1 of the program will be eligible to apply for funding to support continuation of their research project in the year after their Year 1 support (i.e., Year 2).** Residents are eligible for continued support in Year 2 whether they are continuing with protected research time or going back into clinical training full-time. Residents who have completed a year of protected research outside of the NSTP can also apply for Year 2 entry into the NSTP. The key to obtaining research support in Year 2 will be making good progress in their research during Year 1, clear plans for use of the Year 2 funding and a well-considered, specific plan to successfully use the Year 2 funding to help transition to a K award application.

The request for proposals (RFP) will be launched in January 2024. Applicant interviews for entry into Years 1 and 2 will be completed virtually in the spring and award winners will be announced in May. The NSTP start date for both Years 1 and 2 will be July 1, 2024. **NSTP Applications are due by March 15, 2024, and awards will be announced by June 2024.**

- **Applications are being accepted for admission to Year 1 of the NSTP program from individuals who will be starting a 12-month period of protected time for research in July 2024.**
- **No indirect support will be provided by the NSTP; funding will be provided to the institution of the NSTP grant recipient.**
- **A mid-cycle progress report will be required to receive the second allotment of funding for Year 1.**
- **See below for instructions for Year 1 applications.**
- **For all submissions and any questions, please email Costas Hadjipanayis, MD, PhD ([hadjipanayiscg2@upmc.edu](mailto:hadjipanayiscg2@upmc.edu)) and Diana Moughon ([dmoughon@mednet.ucla.edu](mailto:dmoughon@mednet.ucla.edu)).**
- **Applications are currently being accepted with a focus on brain tumors, cerebrovascular, and functional disorders. Applications should include the following information. All information should be included in a single pdf file.**

## **YEAR 1 APPLICATION INFORMATION (2024)**

- **Application Due:** March 15, 2024
- **Candidate Interviews:** Spring 2024
- **Notification of Awardees:** June 2024
- **Start date in NSTP Program:** July 1, 2024
- **Applications will only be considered for those starting a 12-month protected year of research on July 1, 2024**
- **Awards will consist of \$2,500 for travel to the CNS Annual Meeting neurosurgeon-scientist symposium (September 2024) and NIH NINDS R25 meeting (Spring 2025).**
  - **4-page application**, written by resident, consisting of research plan, training plan, plan to get to an NIH K award (includes timing of entire research activity /clinical activity from application date to end of residency) and the general expectation for the K research project, and how the proposed research will lead to the anticipated K award project.
    - First 3 pages must include the specific aims, background/significance, research plan for each specific aim that includes: methods, statistical approach, expected results, pitfalls/alternatives, plan to minimize experimental and analytical bias and how the proposed research will lead to future research direction.
    - The final page should describe a gap-based career development plan (includes mentorship plan, institutional support, and plan for a K award that incorporates timing of research/clinical activity)
    - Bibliography page is not included in the 4-page limit.
  - **Letters of Recommendations:** At least 1 from an individual different than the mentor(s), PD, or Chair.
  - **Candidate NIH biosketch (5 page maximum)**
    - **Biosketch for each mentor:** should include a personal statement specifically relevant to this application.
  - **Mentor(s) letter:** One letter from all mentors should describe the mentoring/training plan, how the mentor intends to help the candidate get to a K award, description of ownership of project by candidate, description of intellectual contribution of candidate to project. The mentor cannot simply have the candidate working on an on-going project that cannot be turned into an original project by the candidate to apply for a K award. If the proposed project did originate with the mentor, a clear description of how this project will lead to a K award project fully owned by the candidate must be clearly explained.
  - **Mentor(s) roles and qualifications description document (1 page)**
  - **Program Director letter of support**
  - **Chair letter** must commit to providing applicant with a minimum of 80% research effort for 12 months, provided as 4 full days Monday through Friday, during Year 1 entry to the NSTP.

**The SNS will not provide research funding during Year 1.** Consequently, either the Chair or mentor must describe where the money will come from to support the proposed research project (e.g., the active grant or specific source of funding). Institutional support will be needed for the Year 1 protected research year. Year 1 funding will be used for travel and attending the CNS Annual Meeting and NIH NINDS R25 neurosurgeon-scientist symposiums.

**Application Process:** Applications are currently being accepted with a focus on brain tumors, cerebrovascular, and functional disorders. All information should be included in a single pdf file, in the order listed above, and

uploaded on the SNS website here: <https://www.societyns.org/nstp-application-year-1>. Logging onto the SNS website is required to gain access to the submission page. If you do not have an account on the SNS website, create the "Create An Account" button on the log-in page.

