Positions at NIH

Labs across the National Institutes of Health (NIH) are looking for students and recent graduates to work on data science and machine learning problems in biomedical research. Positions are explained below, turn over for a list of projects.

**Summer internship**

Open to high school, undergraduate, and graduate students. The only trainee program with a hard yearly deadline. USA citizenship or permanent residency required.

**Application** (high school): <https://www.training.nih.gov/programs/hs-sip>  
**Application** (all others): <https://www.training.nih.gov/programs/sip>

**Deadline**: End of February, 2020

**Postbaccalaureate**

Open to recent bachelor’s degree recipients who intend to go on to graduate or professional school. USA citizenship or permanent residency required.

**Application**: <https://www.training.nih.gov/programs/postbac_irta>

**Graduate** **student**

Many universities, including UMD, have partnership programs that allow graduate students to work with NIH labs on research projects. Open to students applying to graduate school, as well as students already in graduate school.

**Application**: <https://www.training.nih.gov/programs/gpp>

**Postdoctoral**

After completing a PhD, individuals interested in continuing a research career may join the NIH as a postdoctoral fellow. Apply directly to prospective labs, see reverse for contact information.

**More information**: <https://www.training.nih.gov/programs/postdoc_irp>

**Non-trainee**

Full-time positions open to anybody with the requisite experience and qualifications. On the reverse, these positions are listed alongside the degree that applicants should have.



CS Projects at NIH

Below are some of the groups working on computational projects at NIH. Application instructions for each position are on the reverse. Individuals interested in a lab should **contact the lab directly**, in addition to filling out any application forms.

**Laboratory of Cellular Imaging and Macromolecular Biophysics, NIBIB**

Research and develop 3D image analysis and computer vision tools for biological electron microscopy.

**Seeking**: Intern, postbac, scientific computing specialist (BS/MS)

**Contact**: Dr. Matthew Guay <[matthew.guay@nih.gov](mailto:matthew.guay@nih.gov)>

**Advanced Imaging and Microscopy Resource, NIBIB**

Help microscopy imaging labs across the NIH solve image analysis and machine learning problems.

**Seeking**: Intern, postbac, scientific computing specialist (BS/MS).

**Contact**: Dr. Hari Shroff <[hari.shroff@nih.gov](mailto:hari.shroff@nih.gov)>

**Center for Molecular Microscopy, NCI**

Research and develop 3D image analysis and computer vision tools for biological electron microscopy.

**Seeking**: Intern, postbac, graduate student

**Contact**: Dr. Kedar Narayan <[kedar.narayan@nih.gov](mailto:kedar.narayan@nih.gov)>

**Molecular Pathology Unit**

Research and application development for computational pathology assisting cancer diagnosis.

**Seeking**: Intern, postbac

**Contact**: Dr. Mark Simpson <[simpsoma@mail.nih.gov](mailto:simpsoma@mail.nih.gov)>

**Unit on Neural Computation and Behavior, NIMH**

Use two-photon microscopy, modelling, and machine learning to study how brains process information.

**Seeking**: Intern, graduate student, postdoc

**Contact**: Dr. Mark Histed <[mark.histed@nih.gov](mailto:mark.histed@nih.gov)>