



Weldon Graduate Program Announcements August 3rd, 2022

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Career and Internship Opportunities

Internship Positions

- [Engineering Co-op, New Product Development, Tecomet](#)

Postdoctoral Positions

- [Postdoctoral Position, Statistical Bioinformatics and Computational Systems Biology, NIH](#)
- NPA Website: <https://careers.nationalpostdoc.org/jobs/>

Full time Positions

- [Purdue Start-up Job Board](#)—Foundry Start Up Companies Looking to Hire
- [ACTS Career Center](#)—Association for Clinical and Translational Science
- [Doc Jobs](#)—Jobs beyond traditional clinical and academic roles

Chicagoland Postdoc Recruitment Initiative

The Postdoc Affairs Offices at [Northwestern University](#), [The University of Chicago](#), and [University of Illinois Chicago](#) invite you to participate in the [Chicagoland Postdoc Recruitment Initiative](#), taking place virtually **October 20-21, 2022!**

Applications will be accepted through Monday, September 12th. [APPLY HERE!](#)

Don't miss out on this great opportunity to learn about THREE postdoctoral programs in the Chicagoland area and the cutting-edge research happening at each institution. More than [150 faculty members](#) from the

three institutions have signed-up to participate in the Initiative!

This is a collaborative initiative to improve diversity and inclusion at the three largest research universities in the Chicago area, with the goal of addressing the "pipeline" challenge in academia for historically marginalized graduate students and postdocs, including individuals from underrepresented racial and ethnic backgrounds, who have disabilities, who identify as LGBTQIA+, who are veterans, or who were first-generation college students or Pell-eligible. Selected participants will learn about postdoctoral programs in the Chicagoland area, how to find postdoctoral opportunities, how to apply for postdoctoral positions, and how to maximize your postdoctoral experiences. Following these two days of programming, participants will conduct informational interviews with matched faculty members through November 4th.

Questions? Please visit [our website](#) or email us at: chicago.postdoc.recruit@gmail.com

Applicants should be advanced graduate students (have passed qualifying exam or are post-candidacy by October 20, 2022), recent PhD graduates, or early-stage postdocs in STEM fields. There is no citizenship requirement to apply for this event.

Engineering RA Position

Information about the lab and the qualifications for the RA position:

Graduate Research Assistant Position for Physics-based Neuroimaging Analysis

The Garcia Lab applies physical concepts (mechanics) to understand both brain growth and degeneration. Current clinical research collaborations seek to link differences in cortical expansion and shrinkage, assessed with novel physics-based MRI analysis tools, to functional deficits in human. Complementary to this work, we are using multiscale computational modeling, informed by experimental data from animal models, to uncover the biological mechanisms underlying these structural changes during critical periods of brain change. We are seeking a graduate student researcher to conduct physics-based analysis of human MRI data across multiple large and unique datasets. The position will focus on 2 related projects, with additional opportunities to explore new research directions:

1. Enhanced detection of cortical atrophy as a biomarker of early cognitive decline.
2. Characterization of cortical atrophy in individuals with hypertension and/or diabetes.

Backgrounds in neuroscience, neuroimaging, biomedical engineering, mechanical engineering, informatics and/or computer science are welcome.

Requirements: proficient in MATLAB, shell scripting, and statistical software; willing to learn neuroimaging research tools

Benefits: collaboration with IU School of Medicine, authorship for conference presentations and peer-reviewed journal publications, future potential for paid position

Indiana University School of Medicine

As the largest medical school in the United States, Indiana University School of Medicine offers a robust infrastructure to conduct research across its nine campuses. It is home to several centers and institutes focused on brain research, including the BRAIN (Brain Rehabilitation, Advanced Imaging, and Neuroscience) Center, the Stark Neurosciences Research Institute, the Center for Neuroimaging, the Indiana Alzheimer Disease Center, and the IU Health Neuroscience Center. As part of Indiana University, the School of Medicine also benefits from a wide network of computational and research resources accessible from any campus across the state. Indiana University serves as a key partner in the Indiana Clinical and Translational Sciences Institute (Indiana CTSI), which facilitates collaboration and shared resources with Purdue University and the University of Notre Dame.

Indiana University School of Medicine in Evansville

Evansville is the third largest city in Indiana, serving a patient population of ~2M from the tristate area. Within the city, Downtown Evansville has witnessed immense growth and redevelopment in the last ten years, becoming a vibrant hub for southern Indiana. The IU School of Medicine-Evansville is located within the Stone Family Center for Health Sciences, a state-of-the-art multi-institutional medical teaching facility in southern Indiana. Located in the heart of Downtown Evansville, the Stone Center is home to the healthcare professional

training programs of Indiana University, University of Evansville, and University of Southern Indiana. In addition to training medical students in Evansville, the Indiana University School of Medicine Southwest Indiana Residency Programs offer training in Internal Medicine, Psychiatry, and Family Medicine. The Stone Family Center and surrounding buildings are the beginning phase of a medical research corridor, located adjacent to Deaconess Clinic and Deaconess Research Institute. Ongoing developments are underway to operationalize an Indiana CTSI Clinical Research Center, IU School of Dentistry Clinic, and recently-announced Mary O'Daniel Stone and Bill Stone Center for Child and Adolescent Psychiatry.

If interested, please send your CV and transcripts to Dr. Garcia's Purdue collaborator: Dr. Qinglan Ding at pdresearch@purdue.edu

APPLY BY AUG. 19! 📧 2022 Rising Stars in Engineering in Health Workshop hosted by JHU & Columbia



The application for the 2022 Rising Stars in Engineering in Health Workshop, hosted jointly by Johns Hopkins Biomedical Engineering and Columbia University, is now open! Now in its third year, the Rising Stars in Engineering in Health Workshop aims to educate, train, and empower the next generation of leaders in academia at the intersection of engineering and the biomedical sciences.

The two-day, in-person, interactive workshop will take place on Friday-Saturday, November 18-19, 2022 on the Johns Hopkins Homewood campus in Baltimore, MD and will feature rapid-fire research talks, educational presentations, intensive workshops, mock interviews, and panel discussions with Columbia and Johns Hopkins faculty.

We welcome applicants from across the United States, including postdoctoral fellows, research scientists, and graduate students who are working at the intersection of engineering and the biomedical sciences and are one to two years away from applying for a faculty position. As both Johns Hopkins and Columbia Universities pursue excellence in engineering as applied to human health, our priority is to do so in an environment that embraces diversity, equity, and inclusion. With this in mind, we strongly encourage applicants from groups that are historically underrepresented in STEM disciplines.

[Apply Now](#)

Eligibility:

Applicants must be doctoral students, postdoctoral fellows, or research scientists who plan to seek a faculty position in fields at the intersection of engineering and the biomedical sciences in the next one to two years (positions starting in fall 2023 or later).

Selection:

From the applicant pool, twenty Rising Stars will be selected to participate as presenters and participants in the Workshop. All qualified applicants, whether they are selected as a Rising Star or not, will be invited to participate virtually in select educational portions of the Workshop.

Application Requirements:

Applicants should complete the application questions and submit the following materials as a single combined PDF file via the link below:

- Two-page academic statement, including a summary of your research interests, work to date, and goals for the future

- One-page diversity statement describing how past experiences have made you a diverse applicant and how you will apply that diverse perspective in your future research and teaching pursuits
- CV

Applicants are encouraged to submit their application as soon as possible and no later than August 19, 2022.

Notification:

Successful applicants will be notified by October 1, 2022.

Event Contact Information:

Please contact risingstars@live.johnshopkins.edu with any questions.

[Apply Now](#)

Graduate Professional Development Newsletter (July 29)

[Graduate Professional Development Newsletter \(July 29\)](#)

AES Energy Innovation Challenge Informational Webinar

The AES [Energy Innovation Challenge](#) is having two Informational Webinars to provide everyone with specific details on this year's event as well as time for participants to ask any remaining questions they have about this competition. The webinars will be August 8th & 16th from 1-2pm EST. You can register for either of these events with the links below.

For any questions, reference the attached flyer or contact Joseph Parry at joseph.parry@aes.com.

Registration Links:

August 8th – [Register Here](#)

August 16th – [Register Here](#)

Google & Apple PhD Fellowship Programs

Google and Apple Fellowships nomination requests are now open and attached is a flyer about an info session Dr. Lisa Nielsen will be hosting on August 11th for these and other computational fellowships.

Google & Apple Fellowships Open for Nomination

- Nomination Request form: https://purdue.ca1.qualtrics.com/jfe/form/SV_55tXiIDQ6exn9J4
- Deadline to request nomination for these fellowships: Monday, August 29th, 5:00 pm ET

Google Fellowships are awarded to doctoral students who will have completed their academic coursework by Fall 2022. Fellows are provided with a stipend for up to three years along with Google paying for their tuition and fees. A research mentor from Google will be assigned to each fellow. For more information on the Google Fellowship visit: <https://research.google/outreach/phd-fellowship>

Apple Scholars in AI/ML Fellowships are awarded to PhD students who are entering year 2 or year 3 of their program with an estimated graduation date of May 2024 or later. Fellows receive up to two years of tuition coverage from Apple along with a monthly stipend. Apple fellows additionally are assigned a research mentor from Apple and have opportunities to conduct internships at Apple. For more information on the Apple Scholars in AI/ML Fellowship visit: <https://machinelearning.apple.com/updates/introducing-apple-scholars-aiml>

For any other information or details, be sure to contact Lisa Nielsen at lnielse@purdue.edu!

Teaching & Learning in Engineering Graduate Certificate for Engineering Ph.D. students considering a faculty career

The Teaching and Learning in Engineering Graduate Certificate is designed for Ph.D. students in any engineering discipline interested in pursuing a faculty career – at either a research intensive or teaching focused institution. The certificate, offered by Purdue’s School of Engineering Education, consists of four courses, all of which are taught each semester. Students already enrolled in an engineering Ph.D. program at Purdue may register for any of the courses as long as space is available. Brief descriptions of the courses are provided below. Additional information on the certificate and how to apply is available at <https://engineering.purdue.edu/ENE/Academics/Graduate/graduate-certificate>.

Questions can be addressed to Prof. Audeen Fentiman at fentiman@purdue.edu.

ENE 50600, Content, Assessment and Pedagogy (3 credit hours), teaches you how to develop a course from beginning to end and guides you through the process of developing a course in your field.

ENE 68500, Engineering Education Methods (3 credit hours), provides you with a variety of techniques for teaching courses that are both engaging and effective.

ENE 68700, Mentored Teaching in Engineering (1 credit hour), enables you to deepen your understanding of teaching and learning through feedback and reflection as you perform your regularly assigned teaching duties.

ENE 69500, Succeeding as an Engineering Professor (3 credit hours), covers other skills valuable to faculty members such as writing proposals, selecting and mentoring graduate students, and managing projects, along with development of research, teaching, and diversity statements typically required for faculty applications.

Introducing the ABRCMS Graduate Symposium

The inaugural [ABRCMS Graduate Symposium](#) will be held prior to the start of the conference, November 8-9 in Anaheim, CA. The Graduate Symposium is designed for graduate students, in one of our [12 STEM disciplines](#), at the master’s- and doctoral-level, and provides a unique opportunity for graduate students to:

- Highlight their research in oral presentations.
- Strengthen their professional development skills.
- Build their scientific networks among STEM and career professionals.

[Abstract submission is now open](#) and it’s a can’t-miss opportunity for graduate students to connect with peers, leading experts, faculty and established researchers from around the country who share their scientific interests. Additionally, we are committed to ensuring that finances are not a barrier for our community to participate in our events, so [travel awards](#) are available to help offset the cost of attending.

Registration for this event will open soon, and we encourage you to act fast when it does, as limited space is available. Help us spread the word and share this new opportunity with graduate students in your networks.

We look forward to seeing you all in-person this November!

Workshops and Deadlines

Here are some upcoming workshops and deadlines more detailed information about the workshops will be sent out separately closer to the event.

August 3 rd	BME and IBSc Summer Seminar Presentation: Donghyun Yim & Seul Ah Lee
August 8 th	AES Energy Innovation Challenge Informational Webinar
August 10 th	BME and IBSc Summer Seminar Presentation: Lucy Tecle & Luke Brennan
August 11 th	Google & Apple PhD Fellowship Programs Info Session
August 16 th	AES Energy Innovation Challenge Informational Webinar
August 17 th	RCR: Discipline-Specific Training (Grad School)
August 19 th	Deadline to apply: 2022 Rising Stars in Engineering in Health Workshop hosted by JHU & Columbia
August 29 th	Deadline to request nomination for Google and Apple fellowships
Sept. 3 rd	AARCC Student Leadership Summit
Sept. 8 th	Lunch & Learn: Dr. Tanya Paes

Sept. 12th Deadline to apply for Chicagoland Postdoc Virtual Recruitment Initiative
 Sept. 15th AAARCC Speaker Brittany Chan
 Sept. 15th Lunch & Learn: Rabita Rajkarnikar, AICP
 Sept. 22nd Lunch & Learn: Dr. Humaira Gowher
 Oct. 6th AARCC Speaker Dr. Fredy Gonzalez
 Oct. 6th Lunch & Learn: Lane Yahiro
 Oct. 13th Lunch & Learn: Mahit Vaddadi
 Oct 20th Lunch & Learn: Dr. Mojgan Sarmadi
 Oct 20th – 21st Chicagoland Postdoc Virtual Recruitment Initiative
 Oct. 24th AARCC Speaker Dr. Clair Jean Kim
 Oct. 26th AARCC Speaker Dr. Todd Honma
 Nov. 2nd AARCC Speaker Dr. Jenny Wang
 Nov. 3rd Lunch & Learn: Dr. Mindy Tan
 Nov. 8th & 9th ABRCMS Graduate Symposium
 Nov. 10th Lunch & Learn: Dr. Hwanseok
 Nov. 17th Lunch & Learn: Mili Jha
 Nov. 18th & 19th 2022 Rising Stars in Engineering in Health Workshop hosted by JHU & Columbia
 Nov. 21st NAECC and AARCC Friendsgiving
 Dec. 1st Lunch & Learn: Maria Whipple, M.A.
 Dec. 5th – 9th De-Stress Week of Events (AARCC)

News from You

Please inform Tammy of honors, awards, or other accolades (to include having a paper published) you receive so that the Weldon School may recognize your accomplishments. Send the complete information – specific title and nature of the award, name of conference or event at which award was given, date of said event, photograph if available, etc. – to tsiemers@purdue.edu.