



**Paid Teaching Opportunity  
for  
Engineering PhD Students and Postdoctoral Fellows  
Fall 2021 HEART Program**

This is an invitation for JHU PhD students and postdoctoral fellows working on engineering-related projects to teach small research seminars (in their area of expertise) to new undergraduate students through the **Hopkins Engineering Applications & Research Tutorials** [HEART] program.

**Small introductions to big ideas: About the HEART program**

The HEART program provides new undergraduates with a window on advanced engineering research and applications. These small classes are taught by advanced PhD students and postdoctoral fellows working on engineering-related projects across the institution. Students will be introduced to challenging engineering research problems, their importance to society, and their instructor's role in tackling these problems. These tutorials will be useful to students as they evaluate their potential role in research projects. To ensure that these courses are accessible to entering freshmen, they do not have any prerequisites. The tutorials are kept small—with a limit of about 12 in each section—so students will have ample time to interact with their instructor and each other.

These courses meet weekly for ten weeks in 90-minute sessions. Students in these tutorials are graded on a satisfactory/unsatisfactory (pass/fail) basis only. Workload may include readings, presentations, and active participation in class, however no written work (such as papers or problem sets) may be assigned. Attendance is mandatory.

Enrollment is prioritized for first-year undergraduate students.

**Position details**

The HEART program provides a unique opportunity for PhD students and postdocs to be the instructor of record in a course of their own design. This is not only an enjoyable, challenging opportunity to teach, but is also an important component of an application for an academic job.

HEART instructors are paid a \$3,000 stipend and work with a faculty mentor during the semester in which they are teaching.

## **Eligibility and how to apply**

Instructors for this course may be either Whiting School of Engineering PhD students or postdoctoral fellows (including those from the Biomedical Engineering Department in the School of Medicine). PhD students or postdoctoral fellows in other divisions of the university may also be considered if their research has a significant engineering component. As WSE postdocs are employed at 100% FTE, any additional work must be pre-approved, before starting any supplemental employment with JHU. Please contact your department administrator and ask that they submit the appropriate paperwork to the WSE postdoctoral fellow appointment administrator.

Individuals who hold a visa status sponsored by JHU must contact the Office of International Services before engaging in employment to determine whether they will require an authorization for their activities. Failure to do so could result in a violation of your visa status.

Those applying from units outside of the Whiting School of Engineering should indicate in their application how their proposed topic is relevant to engineering first-year students.

*Applicants are expected to discuss their desire to be a HEART instructor with their research supervisor (PI) and secure their approval to teach.*

To be considered for this program, you should provide the following:

- Your current curriculum vitae.
- A short (up to one page) description of the material you wish to cover (typically derived from your current research). Please include a succinct title for your course.
- A short (up to one page) description of any teaching experience/training you may have already had (including, for example, participation in the Preparing Future Faculty program). If you have not had any background in teaching, then tell us why you are interested in this opportunity. Also, please describe how you will incorporate hands-on and active learning methodologies into your class.
- A letter of recommendation from a full-time engineering faculty member (who need not be your dissertation/research advisor). This faculty member should both (a) write in support of your suitability to serve as a HEART instructor and (b) agree to support you as a teaching mentor during the semester. [Engineering faculty mentors are compensated with \$500 discretionary cash to their faculty discretionary accounts.]

For full consideration, please submit your application by Monday, March 15, 2021 by email to: [bzee1@jhu.edu](mailto:bzee1@jhu.edu). Late applications may be considered if positions are available.

Candidates will be informed of the status of their application in late March. If successful, they will be asked to provide some basic, additional items (a short course description, a photograph, a brief bio, and information on their availability for scheduling).

## **Questions?**

Please feel free to contact Michael Falk, Vice Dean for Undergraduate Education: [mfalk@jhu.edu](mailto:mfalk@jhu.edu)