The Departments of Biomedical Engineering and Engineering Science and Mechanics seek applicants for a tenure-track/tenured faculty position with expertise at the forefront of development in biosensing with application to biological or health sciences.

This position is a co-hire between ESM and BME. Engineering science (esm.psu.edu) fosters a highly interdisciplinary environment, promoting collaborations across the engineering disciplines, materials sciences, mechanics, chemistry, physics, mathematics, and biological sciences. Biomedical engineering (bme.psu.edu) combines traditional engineering principles with medicine and technology for the betterment of human health and society.

Candidates who enrich our diversity are strongly encouraged to apply.

Research Expectations: The successful candidates will have demonstrated expertise—through a record of publications and funding indicating a growing or fully developed interdisciplinary research program—in the development of biosensor-based approaches and applications to biological or health sciences. Research synergy with faculty of ESM and BME will be viewed positively, especially in the areas of developing novel technologies and applications to address fundamental biomedical questions, e.g., the development of in vivo, multimodal biosensing approaches that have relevance to health, or in vitro biosensors applicable to highly sensitive and fast examination of target molecules, pathogens, or cells.

Teaching Expectations: The successful candidate will be expected to support the educational efforts in ESM and BME by developing coursework to enhance biosensing training in our engineering education and biosensing practice in our research.

Institutes and Centers: Cross-disciplinary and cross-departmental collaborations are encouraged at Penn State and are facilitated through a range of institutes and research centers. This position is envisioned to particularly leverage the resources of the Huck Institutes of the Life Sciences (huck.psu.edu), the College of Medicine (med.psu.edu), the Penn State Cancer Institute (cancer.psu.edu), Materials Research Institute (mri.psu.edu), the Institute for Computational and Data Sciences (icds.psu.edu), and the Center for Neural Engineering (cne.psu.edu).

Penn State: Penn State’s College of Engineering strives to build a welcoming, inclusive, and supportive environment for students, staff, and faculty. We rely on the expertise, sensitivity, and commitment of an inclusive faculty to enhance diversity, seek equity, and create a welcoming environment within our community. We are committed to nurturing a learning and working environment that respects differences in culture, age, gender, race, ethnicity, physical ability, sexual orientation, and religious affiliation. In welcoming every candidate, we strive to meet the needs of professional families by actively assisting with partner-placement needs.

Qualifications: Required qualifications include a Ph.D. in an engineering science- or biomedical-related discipline, and a track record of accomplishments in both research and teaching. The position is at the assistant professor level, but exceptional candidates at associate and full professor levels will be considered. Nominations and applications will be screened immediately and considered until the position is filled. Expected start date is Aug. 15, 2021.

Application process: Applicants should submit in a single PDF file:

1. A cover letter summarizing impact in advancing biosensing and synergies within the ESM, BME, Huck, and/or other institutes at Penn State
2. Curriculum vitae
3. Statements of contributions and plans on (a) research, (b) teaching, and (c) diversity and inclusion
4. Three representative publications (including preprints)
5. Names and addresses of four references

Apply online

Review of applications will start immediately and will continue until the position is filled.

Inquiries: Inquiries can be directed to either of the search co-chairs, Yong Wang or Patrick Drew, at BME_ESM_Biosensing@engr.psu.edu.