

BME-Hack

Biomedical Engineering Online Hackathon

BME-Hack EuroTech Innovation Day, 28 April 2021

The Biomedical Engineering faculty in the Technion and T-hub, the Technion Entrepreneurship and Innovation Center offer an online one-day hackathon in the biomedical field as part of the 2021 joint Innovation Day events. The hackathon is open to students from the following institutions: Technion - Israel Institute of Technology, The EuroTech Universities Alliance, Technical University of Denmark (DTU), École polytechnique fédérale de Lausanne (EPFL), École Polytechnique (L'X, Eindhoven University of Technology (TU/e), Technical University of Munich (TUM).

The purpose of BME-Hack is to expose students to the experience and challenges of establishing a biomedical start-up company. As part of the hackathon, we will bring together students from diverse academic backgrounds and nationalities to find solutions for medical challenges while implementing engineering approaches. The students will develop the projects while accompanied by mentors, consultants, and entrepreneurs from the medical device field with diverse experience in technology, product and business development, regulation, marketing, and investment.

BME-Hack objectives

- Selection and evaluation of a significant medical need
- Brainstorming and ideation of technological alternatives to fill the need
- Evaluation of the applicability and innovation of the selected technological solutions
- Gaining a general understanding of the path for the selected solution development
- Assessment of commercial applicability
- Presenting a new venture to investors
- Learning how medical ventures are evaluated by investors

Level of solution expected at the end of the BME-Hack day

- Identification of a feasible technological solution for the selected challenge – including initial characterization of the way to implement it.
- Initial identification of competitors, innovation, and evaluation of the advantage of the solution chosen in comparison with the competitors, development of milestones until sales initiation, business model, and evaluation of market potential.

Why Should I Apply?

- Experience the “taste” of establishing a medical start-up
- Meet investors in the medical field
- Meet, learn, and exchange views with professionals in leading medical device companies

- A prize of €2500 will be divided among the winning teams
- Technion students from the winning teams will gain a direct entry to the Technion Biztech competition.

Application process

The application process will demand you to propose a medical challenge. Examples for medical challenges presentations can be found here. Following student's selection, the challenges proposed by all the participants will be presented on the BME-Hack site. Each participant will rate the challenges and teams will be formed by the BME-Hack committee. Each team will work on one of 10 to 15 highest rated challenges.

Timeline

Call for applications: March 1, 2021.

Application deadline: April 1, 2021.

Challenges rating: April 10, 2021.

Teams formation: April 15, 2021.

Pre-Hackathon lecture: Between April 15 and April 27, 2021.

BME-Hack day: 28 April, 2021.

[Apply here >>](#)

[BME-Hack Guidelines >>](#)

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