BMES Officer Position Descriptions

We will get started shortly!!
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Biomedical Engineering Seminar – Dr. Ali Khademhosseini

Ali Khademhosseini, Ph.D.
CEO
Terasaki Institute
"Engineering in Precision Medicine"

January 22, 2021 @ 11:00 a.m., ZOOM (Meeting ID: 946 8024 7606, Password: 627788)

Abstract: Engineered materials that integrate advances in polymer chemistry, nanotechnology, and biological sciences have the potential to create powerful medical therapies. Dr. Khademhosseini’s group is interested in developing ‘personalized’ solutions that utilize micro- and nanoscale technologies to enable a range of therapies for organ failure, cardiovascular disease and cancer. In enabling this vision he works closely with clinicians (including interventional radiologists, cardiologists and surgeons). For example, he has developed numerous techniques in controlling the behavior of patient-derived cells to engineer artificial tissues and cell-based therapies. His group also aims to engineer tissue regenerative therapies using water-containing polymer networks called hydrogels that can regulate cell behavior.

Specifically, he has developed photo-cross-linkable hybrid hydrogels that combine natural biopolymers with nanoparticles to regulate the chemical, biological, mechanical and electrical properties of gels. These functional scaffolds induce the differentiation of stem cells to desired cell types and direct the formation of vascularized heart or bone tissues. Since tissue function is highly dependent on architecture, he has also used microfabrication methods, such as microfluidics, photolithography, bioprinting, and molding, to regulate the architecture of these materials. He has also directed assembly techniques to compile small tissue modules into larger constructs. It is anticipated that such approaches will lead to the development of next-generation regenerative therapies and biomedical devices.

Bio: Ali Khademhosseini is currently the CEO and Founding Director at the Terasaki Institute for Biomedical Innovation. Previously, he was a Professor of Bioengineering, Chemical Engineering and Radiology at the University of California-Los Angeles (UCLA). He joined UCLA as the Levi Knight Chair in November 2017 from Harvard University where he was Professor at Harvard Medical School (HMS) and faculty at the Harvard-MIT’s Division of Health Sciences and Technology (HST), Brigham and Women’s Hospital (BWH) and as well as associate faculty at the Wyss Institute for Biologically Inspired Engineering. At Harvard University, he directed the Biomaterials Innovation Research Center (BIRC) a leading initiative in making engineered biomedical materials. Dr. Khademhosseini is an Associate Editor for ACS Nano. He served as the Research Highlights editor for Lab on a Chip. He is on the editorial boards of numerous journals including Small, RSC Advances, Advanced Healthcare Materials, Biomaterials Science, Journal of Tissue Engineering and Regenerative Medicine, Biomacromolecules, Reviews on Biomedical Engineering, Biomedical Materials, Journal of Biomaterials Science-Polymer Edition and Biofabrication. He received his Ph.D. in bioengineering from MIT (2005); and MA.Sc (2001) and B.A.Sc (1999) degrees from University of Toronto both in chemical engineering.
Election Day

WHEN? Tuesday, February 16th 6PM

WHERE? Zoom: go.osu.edu/bmes_central
Nomination Rules

● You may self nominate for up to 3 positions
● Fill out this form NO LATER than February 9th at 11:59PM (email rasquinha.3/govande.1 with questions)
● Refer to the rest of this powerpoint to learn about the qualifications for each positions
● If you have questions about the positions or want help on your speech email Ian Rasquinha.3 or Mukul Govande.1
Election Process

- Candidates can give a speech between 1-3 minutes
- Describe why you are qualified and how you will serve BMES
- Competing candidates will be moved to a separate zoom room when their competitors speech is being given
- Election for the position will take place immediately after all the candidates have given their speeches
Election Process

- Voting is done through zoom polls or through GoogleForms if polls aren’t working.
- You may give another 1-2 minute speech for your subsequent positions at your own discretion
- You can only vote once per position
Every Officer Should…

- Represent themselves well as a student and BMES officer
- Hold themselves to a high standard academically and ethically
- Work with other officers over the summer to lay the framework for the upcoming year
- Keep in mind that the goal of ALL positions is service to the collective interests of BME here at Ohio State – a title means nothing without service
- Be willing to commit the time necessary to meet – and exceed – the basic responsibilities of their position
- Work with other officers productively and cooperatively
Positions

Elected Positions

• Executive Positions
  – President(s)
  – 2 Vice Presidents
    • Internal
    • External
  – Treasurer
  – Secretary

• Officer Positions
  – 4 Events Chairs
    • Social Development
    • Professional Development
    • Marketing Chair
    • Projects Chair
  – 2 E-Council Representatives
    (freshman only)

Application Based Positions

  – Faculty Liaison
  – Special Initiatives Chair
  – Freshmen Representative
  – Networking Liaison
  – EHIRS Chair
President(s)

**Description**
- Leader of the organization
- “Face” of the organization, “sell” the group
- Represent BMES to all other parties (BMES Nationals)
- Coordinate and execute plans
- Conduct general body meetings and officer meetings
- Strive to improve the society and BME experience for the benefit of members

**Requirements:**
- Accepted BME Major
- Must have previous BMES officer experience
- Willing to spend a minimum of 4-5 hours a week meeting the responsibilities of the position – sometimes a good deal more
- Must attend president training through the Ohio Union
- Maintain standing with Nationals
- Must attend BMES Annual Meeting
- You may run as a pair for co-presidents and make 1 speech
External Vice President

- **Description**
  - Assist president in achieving the yearly goals of BMES
  - Conduct GB and officer meetings when president cannot
  - Recruitment
  - Form a Professional Committee and work with the team to plan and execute Industry Visits
  - Professional Development
    - NN/Networking Series
    - Community Interns Program
    - Shadowing, Industry Visits
    - Medical Visits

- **Requirements:**
  - Accepted BME major
  - Must attend president and treasurer training through the Union
  - Willing to commit a minimum of 3-4 hours a week meeting the responsibilities of the position
Internal Vice President

• **Description**
  ○ Assist president in achieving the yearly goals of BMES
  ○ Conduct GB and officer meetings when president cannot
  ○ Serve as Mentorship Chair
  ○ Form a Mentorship Leadership team and work with the team to plan and execute Mentorship events
  ○ Social Events with the Social Event Chair
  ○ Outreach Events

• **Requirements:**
  ● Accepted BME major
  ● Must attend president and treasurer training through the Union
  ● Willing to commit a minimum of 3-4 hours a week meeting the responsibilities of the position
Treasurer

- **Description**
  - Manages all income, expenses, and current accounts
  - Maintain transparent records
  - Chief administrator for funds within the BMES account
  - Submits Programming and Operating Funds
  - Coordinate payment of National dues
    - Assist in administrative details of fundraising
    - Assist in any necessary audits

- **Requirements:**
  - BME Major or Intent to apply major
  - Attend treasurer training through the Union
  - Willing to commit a minimum of 2-3 hours a week meeting the responsibilities of the position – sometimes more
Secretary

• **Description**
  ○ Manage all communications and non-financial records
    ■ Respond or forward emails from bmes@osu.edu
  ○ Take minutes at all general body and officer’s meetings
  ○ Creates Weekly Emails

• **Requirements:**
  ○ Strong interest in biomedical engineering
  ○ Excellent organization and written communication skills
  ○ Willing to commit a minimum of 2-3 hours a week meeting the responsibilities of the position – sometimes more
Social Events Chair

- **Description**
  - Plan social events in collaboration with mentorship
  - Plan officer bonding events

- **Requirements:**
  - A strong interest in biomedical engineering
  - Willing to commit a minimum of 2 hours a week meeting the responsibilities of the position, and more during the weeks leading up to major BMES events
Professional Development Chair

- **Description**
  - Work with PD committee for outreach to companies and to bring new companies into our network bank
  - Work with event coordinators and president(s) to plan Community Interns, Networking Night/Series and more.

- **Requirements:**
  - A strong interest in biomedical engineering
  - Willing to commit a minimum of 2 hours a week meeting the responsibilities of the position, and more during the weeks leading up to major BMES events
Projects Chair

- **Description**
  - Form and run small committees to plan the annual BioHack
  - Plan and lead the semester projects as well as the smaller individual projects throughout the semester

- **Requirements:**
  - A strong interest in biomedical engineering
  - Willing to commit a minimum of 2 hours a week meeting the responsibilities of the position, and more during the weeks leading up to major BMES events
Marketing Chair

- **Description**
  - Manage and update the OSU BMES website
    - bmes.osu.edu
    - Update officer bios, upload new pictures, update calendar etc.
  - Manage BMES Facebook, Twitter, and other pages
  - Creates drafts for advertisements

- **Requirements:**
  - Non-senior (preferably rising sophomore) with a strong interest in BME
  - Interest in web design and programming
  - Experience preferred, but NOT necessary
  - Willing to commit a minimum of 1 hour per week to meet the responsibilities of the position
E-Council Representatives (2)

- **Description**
  - Attend all E-Council meetings (usually every other week)
    - BMES is required to have at least one representative at all meetings in order to maintain eligibility for funding
    - If one is busy, the other can attend
  - Give E-Council funding presentation and work with executive board to create a strong presentation
  - Notify officer board of all volunteer opportunities through E-Council
    - Volunteer hours are key in determining funding
  - Eat **free food** at E-Council meetings
    - This is optional, but **highly** recommended

- **Requirements:**
  - Must be a rising sophomore
  - A strong interest in biomedical engineering
  - Willing to make sure every E-Council meeting is attended
Application Based Positions
Special Initiatives Chair

WHAT? This position will allow BMES members to get involved in the organization immediately and gain leadership experience. This officer will act as lead for many projects that BMES has such as the Women's Event in the spring and the ongoing mental health initiatives. You will get a chance to plan events, speak at meetings and collaborate with the BME department. This position also has the ability to assist in other aspects of the organization such as mentorship, professional development, projects, event planning, and much more!

LINK? Apply Here!
Networking Liaison

WHAT? This position will allow students to get involved in the organization immediately and gain leadership experience. This officer will act as a spokesperson between BMES and other clubs on campus and between BMES and the outside community. You would be responsible for collaborating with other organizations on behalf of BMES! These events would include outreach with middle or high school students and collaborations with Makers Club or Salsa Club!

LINK? [Apply Here!]
Faculty Liaison

**WHAT?** Please fill out this form if you are interested in becoming BMES's faculty liaison! The faculty liaison attends every Undergraduate Studies Committee (USC) meeting, once a month, during the school year. These meetings will be attended by faculty and staff from the BME department. This position is a great way to meet faculty and learn more about the department. At these meetings you will be the voice of BMES, all BME students, and will assist in changing the department for the better.

**LINK?** [Apply Here!](#)
EHIRS Chairs (2)

**WHAT?** The EHIRS chairs are responsible for planning one of our flagship events called Engineering in Healthcare: Industry and Research Symposium. The Chairs will coordinate with their EHIRS Committee to plan the event. The Chairs are tasked with reaching out to company representatives, planning the location, creating fliers, organizing purchases, and planning the schedule for the event. EHIRS is considered one of our most incredible events and to be the one heading the planning of the event would look significant in your resume and provide you with experience to succeed at nearly anything you choose to do in the future.

**LINK?** [Apply Here!](#)
Outreach Chairs (2)

WHAT? This position will allow BMES members to get involved in the organization immediately and gain leadership experience. This officer will act as lead for the outreach initiatives that BMES will undertake such as our high school outreach events and community impact events. In particular, you will be focusing on the topics of accessibility to STEM education in underserved communities, as well as themes of diversity and inclusion.

LINK? Apply Here!
Thank you for attending!

Don’t Forget to sign in!
- go.osu.edu/bmes_sign

If aren’t already a member please pay dues here!
- If you want to pay dues now please visit our Venmo!
- $20 for Freshman, $40 for Others
- Venmo: @BMESatOSU, include: First Name, Last name.#, T-shirt Size, Year