Presenters

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PRESENTATION OUTLINE

1. Program History
2. About MIT
3. Fellowship Overview and Benefits
4. Program Activities
5. Life at MIT/In Boston
6. How to Apply
FELLOWSHIP ORIGINS

Established through the MIT-KFUPM collaboration

Admitted first two fellows in 2012

Saudi Aramco expanded the program with a 5 year agreement starting in 2013
March 24, 2018. During His Royal Highness Prince Mohammed bin Salman’s visit to MIT, KACST and MIT signed a 10-year agreement to establish the MIT-KACST Ibn Khaldun Fellowship ensuring a bright future for the program. The first fellows arrived in January 2019.
OTHER MIT - SAUDI RELATIONSHIPS

- Center for Complex Engineering Systems (CCES) at KACST and MIT
- Abdul Latif Jameel, World Water and Food Security Lab, J-WAFS
- Abdul Latif Jameel, Poverty Action Lab, J-PAL
- Abdul Latif Jameel, Clinic for Machine Learning in Health, J-Clinic
- Center for Clean Water and Clean Energy at MIT and KFUPM (Original)
MIT Impressions: Dr. Philip Khoury – MIT Associate Provost
MIT RESEARCH FACILITIES

Individual faculty labs as well as interdepartmental shared research infrastructure

Example: MIT.nano 20,000 m², opened Oct. ‘18

- Animal modeling and clinical testing
- Cell culture and analysis
- Chemistry synthesis and analysis
- Data analysis
- Fabrication
- Imaging
- Materials production and analysis
- Technology research and development
- Cleanrooms
- Materials growth
- Maker Space
- 3D Printing
- Computer-aided visualization
MIT is issued a new patent about every 2 days!

Each Year:
- 59 to 102 licenses
- 18 to 45 options
- 16 to 26 companies started on MIT IP
- 100+ additional companies launch from other MIT activities
Talent + Resources + Proximity = Discovery, Innovation, & Entrepreneurship + Capital, Partnering & Commercial Products

http://www.kendallsq.org/visit-our-neighborhood/
FELLOWSHIP OVERVIEW

The Fellowship is a one year research opportunity for Saudi Arabian women who hold a PhD with competitive and merit-based admission. *Hands-on research is the central goal of the program.*

- Collaborate with an MIT professor and his or her research group
- Access to world-class facilities and support
- Professional development opportunities to supplement research

Dr. Khulood Rambo (Effat University) with some of her MIT collaborators Dr. David Warsinger and Santosh Shanbhogue
FELLOWSHIP GOALS

- Enable Saudi women PhDs to conduct research at MIT under the supervision of MIT faculty
- Expose a generation of Saudi women scholars to MIT’s world class research, teaching and business practices
- Foster the continual improvement of the research environment at Saudi universities for students and faculty
- Support the community of fellowship alumni in their ongoing development and the fellows’ contribution to the Kingdom’s knowledge society
- Enhance the participation of women in the Kingdom’s economy and in scientific research
- Facilitate communication and collaboration between MIT and Saudi researchers
MIT HOST DEPARTMENTS TO DATE: 17

Koch Institute for Integrative Cancer Research at MIT

Department of Materials Science and Engineering
Civil and Environmental Engineering
NSE
Nuclear Science & Engineering at MIT
Science : Systems : Society

LIDS

CSAIL

McGovern Institute for Brain Research at MIT

SA+P
MIT School of Architecture and Planning
FELLOWSHIP STATISTICS TO DATE

- Fellows: 38
- Publications: 108
  - Journal: 56
  - Conference: 52
- Patents filed: 7 (3 issued!)
Benefits to Fellows: RESEARCH

- Joint research with an MIT professor and his or her research team
- Possibility to publish research results with MIT faculty in leading journals and conferences
- Access to world-class research facilities
- Work and network with some of the world’s leading researchers

Dr. Norah Al-Haqbani
King Saud University

Dr. Mariam AlEissa
Saudi Centers for Disease Control
Benefits to Fellows: PROFESSIONAL DEVELOPMENT

- Access to professional seminars at MIT on a variety of topics
- Workshops and conferences
- MIT Professional Education
- Sloan Business School Executive Education
- Courses in leadership, academic administration and entrepreneurship
- Attend MIT classes

2017 Fellows Drs. Al Salamah, Al Shahrani, Al Amri, Al Mashhadi, and Al Dossary receive Kaufman Teaching Certificates.
Benefits to Fellows: ADVANCEMENT

- Jwaher Al Ghamdi – PROMOTED to Vice Dean for Community Service and Sustainable Development, Imam Abdulrahman bin Faisal University (IAU)
- Asmaa El-Sharif – PROMOTED to Vice Dean of Science College, IAU
- Sumayah Al Solaiman – APPOINTED to the Municipal Council for the Dammam Metropolitan Area. PROMOTED to Dean of the College of Design, IAU AND is CEO, Architecture and Design Commission at Ministry of Culture
- Nabilah Abughazalah – PROMOTED to Vice Dean of Scientific Research Publishing, Princess Noura bint Abdulrahman University
- Malak Al Nory – PROMOTED to Provost AND APPOINTED International C3E Ambassador by the Ministry of Energy
- Hebah ElGibreen – PROMOTED to Dean of Robotics Center, Female Side, Deputy Director of Alumni Center, King Saud University AND APPOINTED Head Manager, Center of Smart Robotics (CS2R)
- Omaima Bamasag – PROMOTED to Full Professor AND Director of the Center of Excellence in Smart Environmental Research at King Abdulaziz University
- Heba Kurdi – PROMOTED – to Associate Professor and APPOINTED ABET program evaluator, King Saud University
- Dr. Sanaa AlAttas – PROMOTED – to Associate Professor, King Abdulaziz University
- Dr. Areej Al Wabil – APPOINTED - Executive Director of IP Enablement at Saudi Authority for Intellectual Property & Director of Human Computer Interaction Lab
- Dr. Sara O. Al-Hamoud – PROMOTED to GM of Gifted in Ministry of Education
- Dr. Mariam AlEissa APPOINTED – Associate Professor at the Medical School at AlFaisal University
- Dr. Amira Alhazmi PROMOTED – Dean of Scientific Research at University of Hafr Al Batin

& MORE!
Benefits to Fellows: TEACHING

- Kaufman Teaching Certificate Program
- MIT teaching experience
- Mentoring of undergraduate students

Dr. Asma El-Sharif co-taught 2.674 “Hands on Micro/Nano Engineering Lab” with Prof. Sang-Gook Kim who has provided her the teaching materials to build this course and labs at University of Dammam.

Dr. Malak Al Nory was a mentor to students for 2.009 Product Engineering Processes with Dr. David Wallace. Dr. Wallace conducted several teaching workshops at Effat University.
Benefits to Saudi INSTITUTIONS

- Networking for future collaborations
- Building additional research capabilities
- Exposure of the MIT community to Saudi women’s scholarship
- Possible publications with MIT faculty
- New teaching skills for faculty
- Advancement of faculty
PAST FELLOWS’ HOME INSTITUTIONS: 16
Benefits to the Kingdom and Vision 2030

- Helping the Kingdom to meet its goals for increasing women’s participation in the workforce and STEM research and development

Dr. Sanaa Al Attas, King Abdulaziz University
FELLOWSHIP SEMINARS

- Current fellows present on their research
- Open to the whole MIT community & more on Zoom
- Former Fellow seminars on a variety of topics
FIRST IBN KHALDUN REUNION – JULY 2018
LEADING INNOVATION: TOWARDS VISION 2030

- One day seminar for fellows
- Presented by MIT Sloan School of Management
- 24 fellows attended
- Also attended Mr. Faisal AlIbrahim, Vice Minister at Ministry of Economy and Planning

The Ibn Khaldun Fellows with Vice Minister AlIbrahim at the closing of the Sloan program
Giving back to KSA and their fellow Women in STEM

- Professional training and development
- Seminar Series
- Enhance academic and professional pursuits of our Fellows
- Encourage and support past and present Fellows

Past Events

- Strategic Sponsor for the KACST ACM Chapter / Summer School on HCI Research Method (Aug 2018)
- Collaboration to bring MIT Hacking Medicine to KSA – December 2019
FELLOWSHIP COMMUNITY

Strengthening the network of collaborators

- Orientation and presentations for fellowship planning
- Area cultural trips/activities
- Fellowship workshops
- Quran readings
- Luncheons
FAMILY AND CHILDREN - EDUCATION

- On-campus childcare centers for fellows who arrive with families (space permitting)
- Cambridge provides free excellent public education
- After school programs
- 15 private schools
- Various summer camps and programs
- Eid is a school holiday
Applicants also must meet these criteria:

- Be a woman who is a Saudi Arabian citizen
- Completed a PhD
  - in a related field by Program Start Date (Sep 2021)
  - within last 7 years – exceptions on a case-by-case basis
- Have an excellent command of spoken and written English
- Have a demonstrated ability to conduct research
- Have at least two publications in peer reviewed journals
- Should be working in a field in which MIT faculty have current research
HOW TO APPLY

Apply online at IBK.MIT.EDU/APPLICATION

Requires:
- Online form
- Current CV
- Letter of recommendation
- Copy of most significant publication

Deadline: 1 December 2020
ELEMENTS OF A STRONG APPLICATION

Apply online at IBK.MIT.EDU/APPLICATION

Tell us your ideas for collaboration:

- Past research
- Recent letter of recommendation from someone who can speak to your research experience
- Plan for research you would like to do at MIT
- Do an online search and find 3 MIT professors whose research interests match your own
Committee at KASCT reviews all applications

Committee at MIT reviews all applications

MIT conducts video conference interviews with selected candidates

MIT accepts the most qualified candidates
PLANNED REVIEW TIMELINE

- Jan – Feb: MIT IBK Team video interviews applicants
- Late February: Video interviews completed
- Early March: Share admission decisions
- June: Deadline for applicants’ mutual accepts to IBK
POST ACCEPTANCE PROCESS

YOU: Accepted Applicant

IBK Team at MIT

MIT Professor

Letter of acceptance

Working in Lab at MIT
Thank You!

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