Presenters:
Theresa Werth, Dorothy Hanna, Nadiyah Shaheed
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 NEW
- MIT Energy Initiative MITEI: Saudi Aramco is a founding member
- Center for Clean Water and Clean Energy at MIT and KFUPM (Original)
MIT RESEARCH FACILITIES

Individual faculty labs as well as interdepartmental shared research infrastructure

- 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

Example: MIT.nano 20,000 m², opened Oct. ‘18
US PATENTS ISSUED TO MIT

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

MIT is issued a new patent about every 2 days!
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: 18

- Mechanical Engineering
- Sloan School of Management
- Mathematics
- Chemistry
- Chemical Engineering
- Materials Science
- Aeronautics and Astronautics
- Center for Computational Engineering
- Computer Science and Artificial Intelligence Laboratory
- Laboratory for Information & Decision Systems
- Civil and Environmental Engineering
- Architecture & Planning
- MIT Media Lab
- Biology & Whitehead Institute
- McGovern Institute for Brain Research

the center for computational engineering
FELLOWSHIP STATISTICS TO DATE

- Fellows: 36
  (+2 in progress)
- Publications: 79
  - Journal: 44
  - Conference: 35
- Patents filed: 5 (2 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. Haleema AlAmri, Saudi Aramco & Dr. Thamraa AlShahrani, Princess Noura University

Dr. Norah Al-Haqbani
King Saud University
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
- Nabilah Abughazalah – PROMOTED to Director for Scientific Research Publishing, Princess Noura bint Abdulrahman University
- Malak Al Nory – PROMOTED to Provost AND APPOINTED International C3E Ambassador by the Ministry of Energy
- Khulood Rambo – PROMOTED to Dean of the College of Engineering, Effat University
- Hebah ElGibreen – PROMOTED to Dean of Robotics Center, Female Side, Deputy Director of Alumni Center, King Saud University
- Omaima Bamasag – PROMOTED to Full Professor AND Director of the Center of Excellence in Smart Environmental Research at King Abdulaziz University
- Sufana AlMashhadi – PROMOTED to Director of the Innovation Center at King Fahad Medical City
- Heba Kurdi – PROMOTED – to Associate Professor and APPOINTED ABET program evaluator, King Saud University
- Drs. Ghadah Al Dabbagh and 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

& 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.

Dr. Malak Al Nory – 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

MIT Fellowship team visits Effat University Fall 2014
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. Amal AlDossary, KACST
FELLOWSHIP WORKSHOPS

- Fellows present on their research
- Open to the whole MIT community
- Held annually at MIT
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 Allbrahim, Vice Minister at Ministry of Economy and Planning

The Ibn Khaldun Fellows with Vice Minister Allbrahim at the closing of the Sloan program
IBN KHALDUN ALUMNI SOCIETY

Giving back to KSA and their fellow Women in STEM

- Professional training and development
- Mentorship program through the Kingdom
- Conferences, hackathons, workshop
- Enhance academic and professional pursuits of our Fellows
- Encourage and support active alumni community

Events

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

Strengthening the network of collaborators

- Orientation and presentations for fellowship planning
- Luncheons
- Fellowship workshops
- Quran readings
- Area cultural trips/activities
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
SELECTION CRITERIA

In selecting finalists, the review panel is looking for a proven research capability, including publications, and evidence of the ability to succeed within the MIT research environment.

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
- 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 for September 2020 fellowship: 1 December 2019
ELEMENTS OF A STRONG APPLICATION

Apply online at IBK/MIT.EDU/APPLICATION

Tell us your ideas for collaboration:
- Past research
- Recent letter of recommendation
- 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
REVIEW PROCESS

1. KASCT provides feedback on top candidates
2. Committee at MIT reviews all applications
3. MIT conducts video conference interviews with selected candidates
4. MIT admits the most qualified candidates
POST ACCEPTANCE PROCESS

YOU: Accepted Applicant

IBK Team at MIT

MIT Professor

Letter of acceptance

Working in Lab at MIT
ONLINE INFORMATION SESSION

We will be hosting one more online information session:

- **Tuesday, Nov 12, 2019**
  
  (10 am EST/ 3 pm GMT/ 6 pm AST/ )

Registration info:

- Search Eventbrite.com for Ibn Khaldun
- Follow us on twitter @ibkfellowship, @kacst
CONTACT ALUMNAE

These previous fellows will be happy to speak to you about their experiences at MIT.

- Haleema AlAmri, Aramco/KAUST  haleema@mit.edu
- Sufana AlMashhadi, KFMC  sufana@mit.edu
- Abeer Olayan, Aramco  abeer.olayan@aramco.com

For general questions:
ibk@mit.edu OR ibk@kacst.edu.sa
Thank You!

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