



**Ibn Khaldun Fellowship
for Saudi Arabian Women**



Presenters

Prof. Kamal Youcef-Toumi

Mrs. Theresa Werth

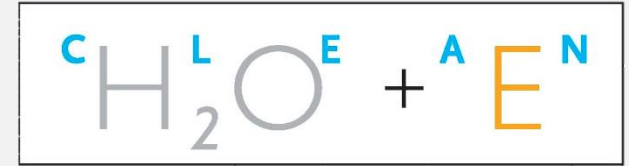
Ms. Dorothy Hanna

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



Center for Clean **Water** and Clean **Energy** at MIT & KFUPM

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



أرامكو السعودية
Saudi Aramco



FELLOWSHIP FUTURE

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.



MIT President L. Rafael Reif and KACST President Dr. Prince Turki Bin Saud Bin Mohammed Al-Saud

OTHER MIT - SAUDI RELATIONSHIPS



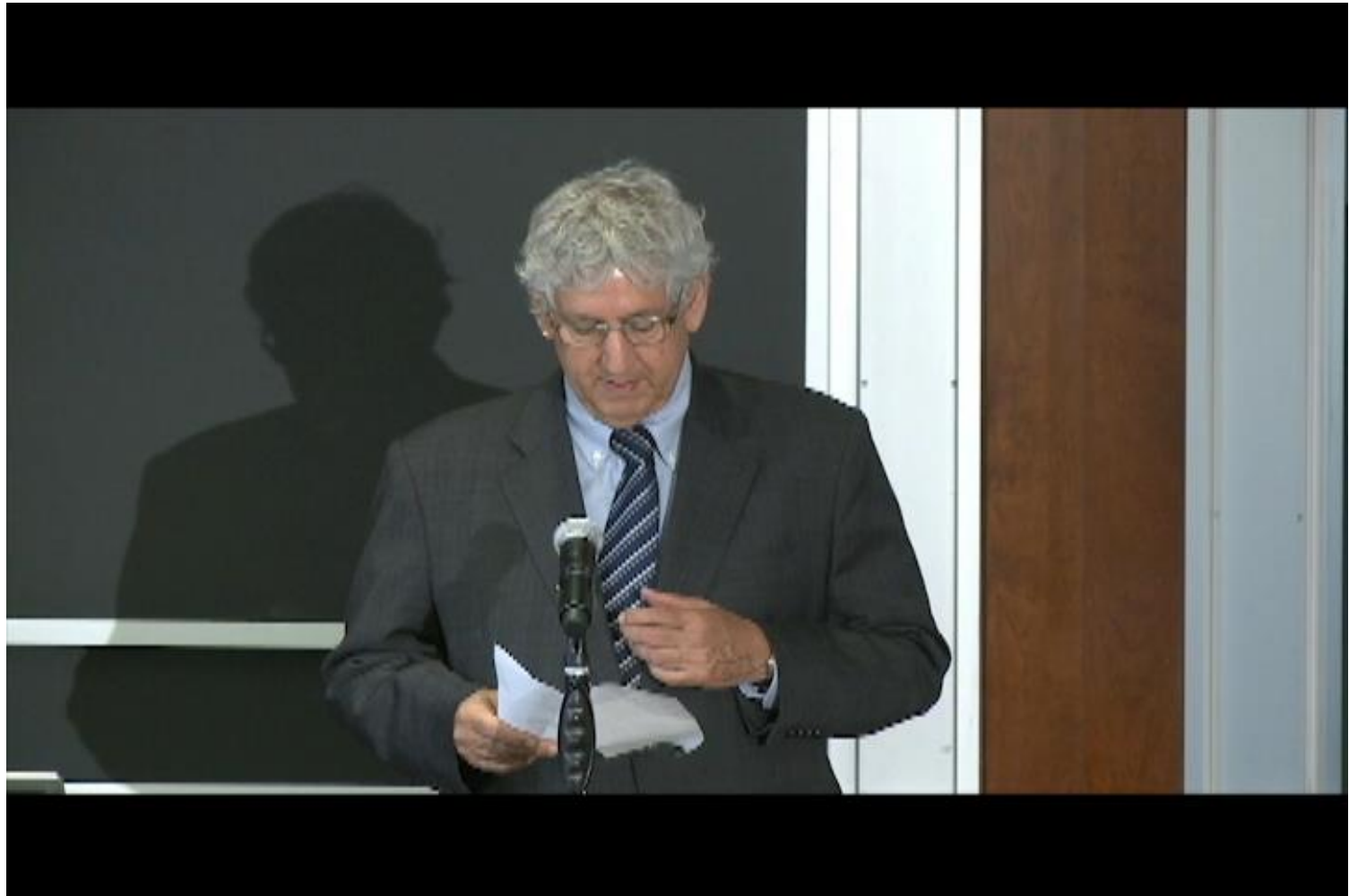
- Center for Complex Engineering Systems (CCES) at KACST and MIT
- Abdul Latif Jameel, World Water and Food Security Lab, J-WAFS
- Abdul Latif Jameel, Poverty Action Lab, J-PAL
- Abdul Latif Jameel, Clinic for Machine Learning in Health, J-Clinic NEW
- Center for Clean Water and Clean Energy at MIT and KFUPM (Original)



ABDUL LATIF JAMEEL
Poverty Action Lab
TRANSLATING RESEARCH INTO ACTION



Center for Clean Water and Clean Energy at MIT & KFUPM



MIT Impressions: Dr. Philip Khoury – MIT Associate Provost

MIT RESEARCH FACILITIES

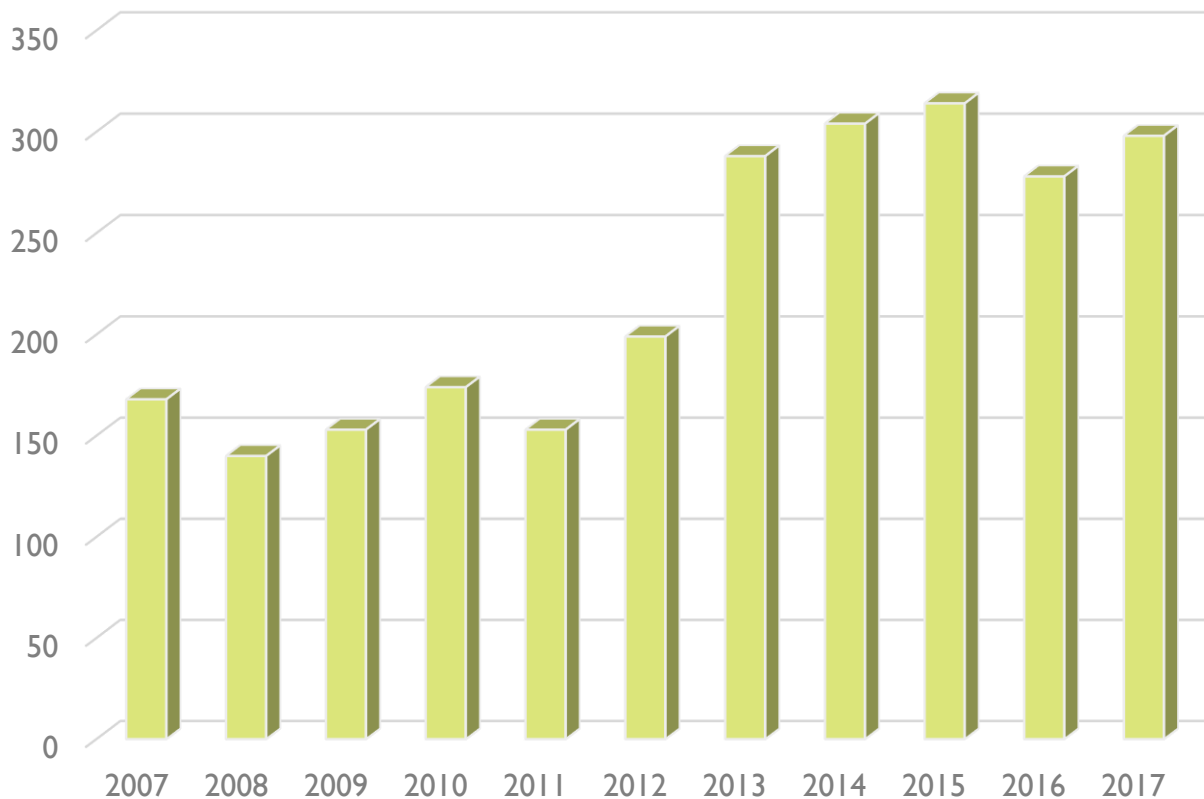
Individual faculty labs as well as interdepartmental shared research infrastructure



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

US PATENTS ISSUED TO MIT



Each Year:

59 to 102 licenses

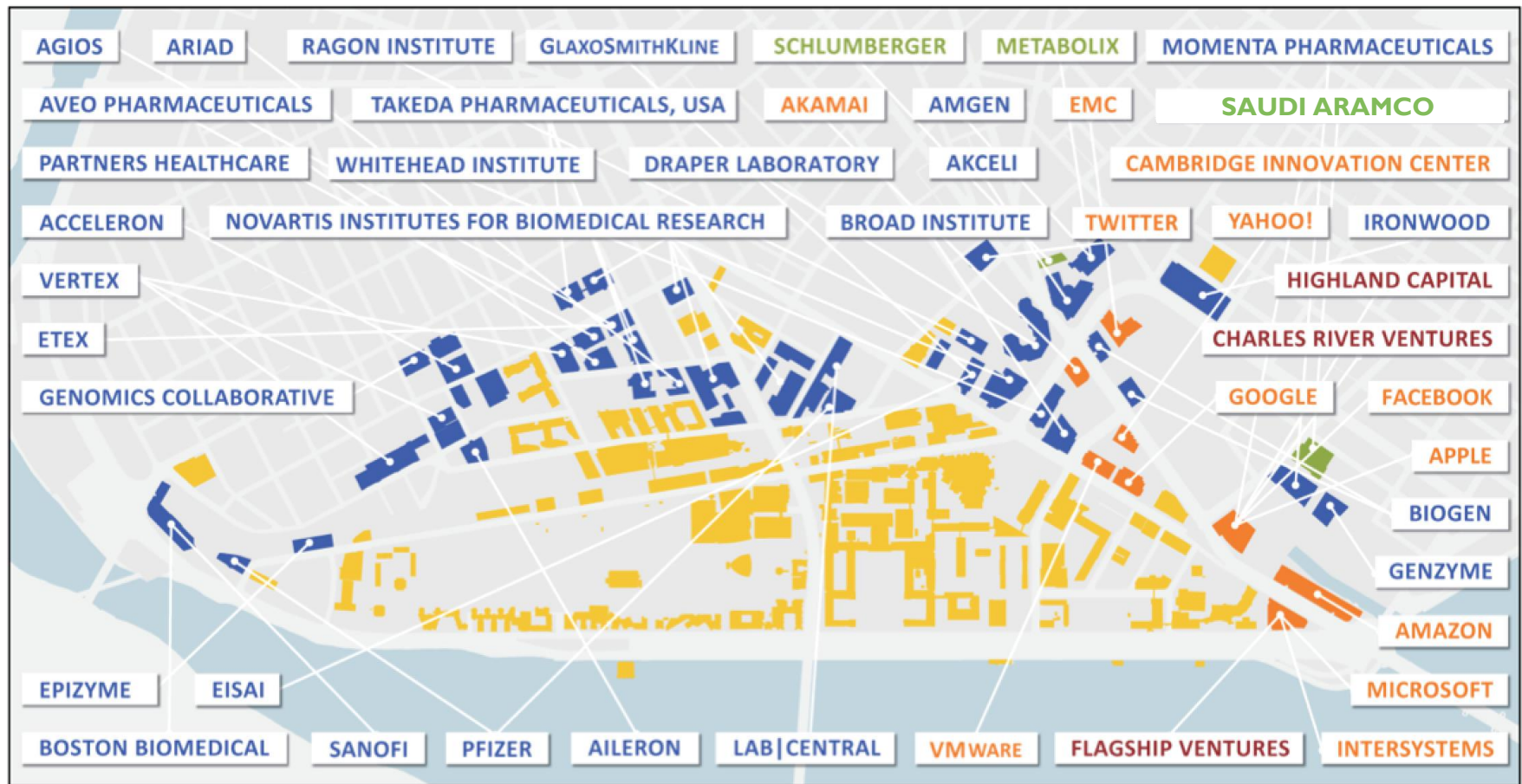
18 to 45 options

*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



ENERGY IT/DATA
BIO/PHARMA VC

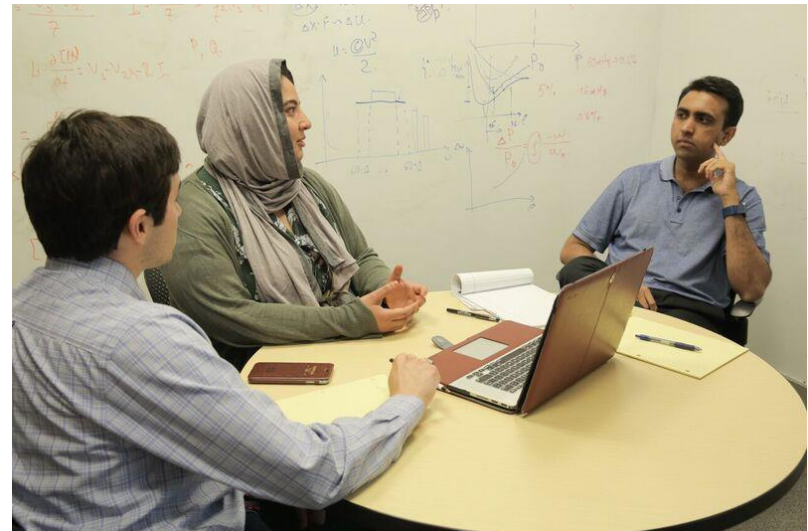
<http://www.kendallsq.org/visit-our-neighborhood/>

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

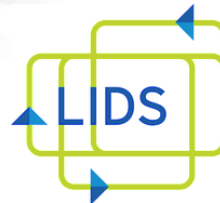


ChemE



NSE

Nuclear Science & Engineering at MIT
SCIENCE : SYSTEMS : SOCIETY



the center for
computational engineering

MIT
MATHEMATICS

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. Mariam AlEissa
Saudi Centers for Disease Control



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.



PROFESSIONAL EDUCATION 



Benefits to Fellows: ADVANCEMENT

- Jwahr 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)
- Omaira Bamasag – PROMOTED to Full Professor AND Director of the Center of Excellence in Smart Environmental Research at King Abdulaziz University
- Haleema AlAmri – PROMOTED – Program Lead, Sustainable Plastic R&D Non-Metallic Initiative, Saudi Aramco
- 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

Benefits to Fellows:TEACHING

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



Dr. Malak Al Nory – Effat University

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



MIT & KACST teams visit KAUST
Fall 2019

PAST FELLOWS' HOME INSTITUTIONS: 16



جامعة الأميرة نورة بنت عبد الرحمن
Princess Nora Bint Abdul Rahman University



مدينة الملك عبدالعزيز
للعلم والتكنولوجيا KACST



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

أرامكو السعودية
Saudi Aramco



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

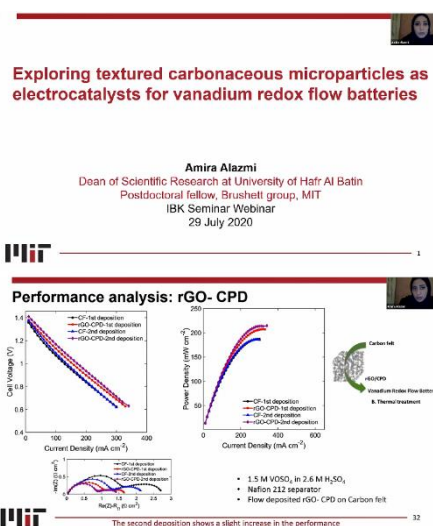


Dr. Sanaa Al Attas, King Abdulaziz University



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 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 SOCIETY

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



Cambridge Public Schools are built on a foundation of academic excellence and committed to promoting an environment of social justice.

School Safety



CPS strives to provide a safe, welcoming, and enriching environment for all students. >>>

Quick Links

- [Superintendent Search](#)
- [Superintendent's Blog](#)
- [Employment Permits](#)
- [Family Contact Books](#)
- [2015-16 Calendar](#)
- [Contact Us](#)

Building Excitement



King Open and Cambridge Street Upper School & Community Complex Project Construction Update. >>>

SELECTION CRITERIA

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

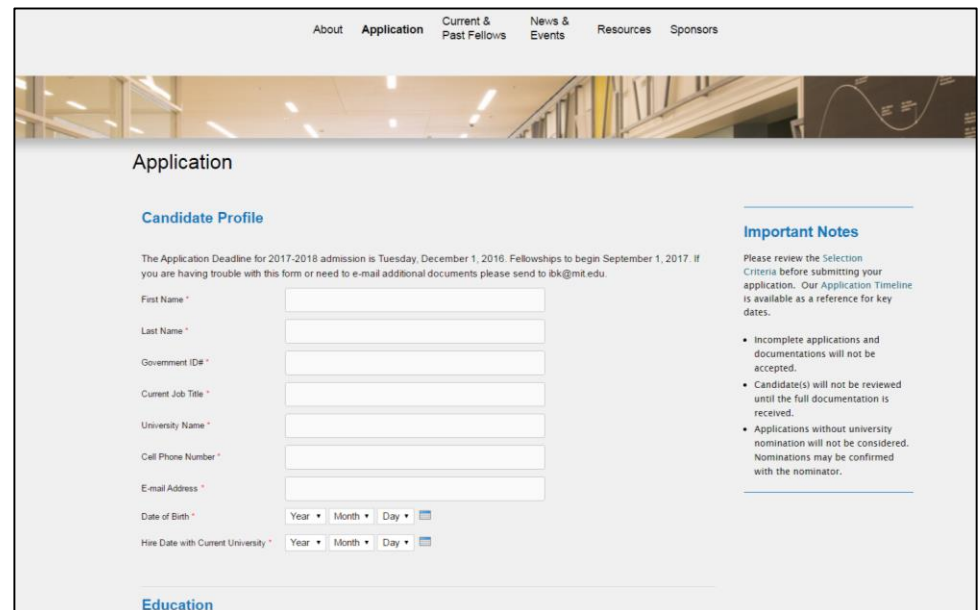
HOW TO APPLY

Apply online at [IBK.MIT.EDU/APPLICATION](https://ibk.mit.edu/application)

Requires:

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

Deadline: 1 December 2020



The screenshot displays the 'Application' page of the IBK MIT website. At the top, a navigation bar includes links for 'About', 'Application', 'Current & Past Fellows', 'News & Events', 'Resources', and 'Sponsors'. Below the navigation bar is a header image showing a modern interior space. The main content area is titled 'Application' and features a 'Candidate Profile' section with a list of input fields: First Name, Last Name, Government ID#, Current Job Title, University Name, Cell Phone Number, E-mail Address, Date of Birth (with Year, Month, and Day dropdowns), and Hire Date with Current University (with Year, Month, and Day dropdowns). To the right of the form is an 'Important Notes' section with a blue header. The notes include a paragraph about the application deadline and a bulleted list of requirements: incomplete applications will not be accepted; candidates will not be reviewed until full documentation is received; and applications without university nomination will not be considered. The bottom of the page shows the beginning of an 'Education' section.

Application

Candidate Profile

The Application Deadline for 2017-2018 admission is Tuesday, December 1, 2016. Fellowships to begin September 1, 2017. If you are having trouble with this form or need to e-mail additional documents please send to ibk@mit.edu.

First Name *

Last Name *

Government ID# *

Current Job Title *

University Name *

Cell Phone Number *

E-mail Address *

Date of Birth * Year Month Day

Hire Date with Current University * Year Month Day

Important Notes

Please review the [Selection Criteria](#) before submitting your application. Our Application Timeline is available as a reference for key dates.

- Incomplete applications and documentations will not be accepted.
- Candidate(s) will not be reviewed until the full documentation is received.
- Applications without university nomination will not be considered. Nominations may be confirmed with the nominator.

Education

ELEMENTS OF A STRONG APPLICATION

Apply online at [IBK.MIT.EDU/APPLICATION](https://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

REVIEW PROCESS

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

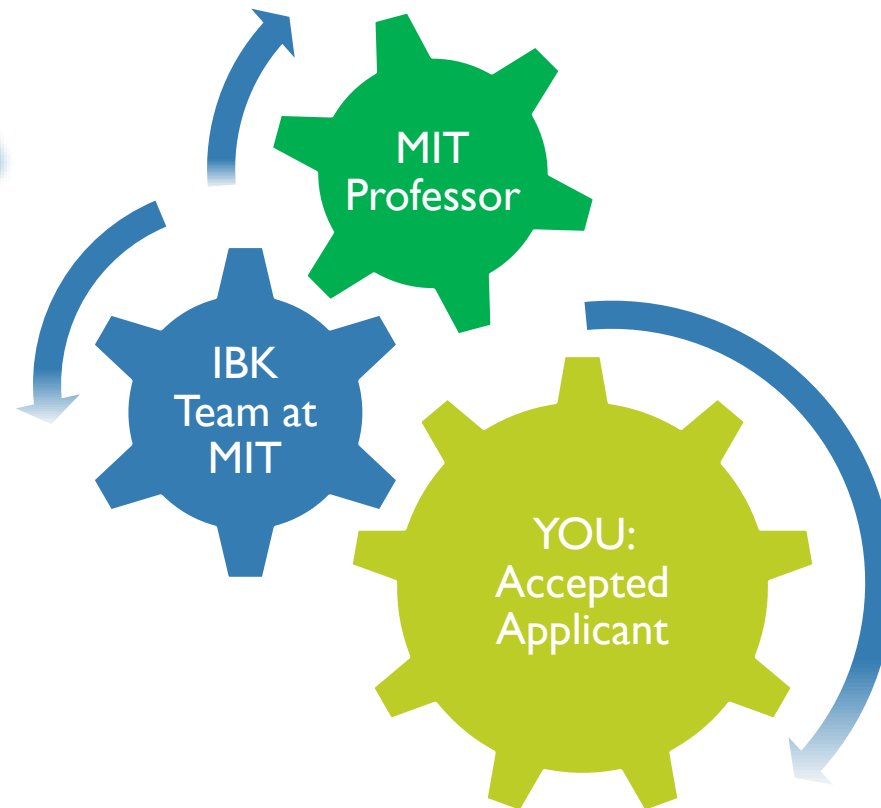
Late February: Video interviews completed

Early March: Share admission decisions

June: Deadline for applicants' mutual accepts to IBK

POST ACCEPTANCE PROCESS

Letter of
acceptance



Working in
Lab at MIT



شكرا

Thank You!