



Ibn Khaldun Fellowship for Saudi Arabian Women

Presenters
Prof Kamal Youcef-Toumi & Dorothy Hanna







- 1. IBK Program History
- 2. Why MIT?
- 3. Fellowship Overview
- 4. How to Apply
- 5. Q&A



Dr. Lamyaa Almehmadi Spectroscopy



Dr. Sharifa Alghowinem AI & Personal Robots



Dr. Maryam Alsharqi Cardiology Imaging



Dr. Eman Ageely Genetics



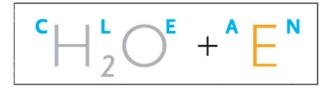
Program History

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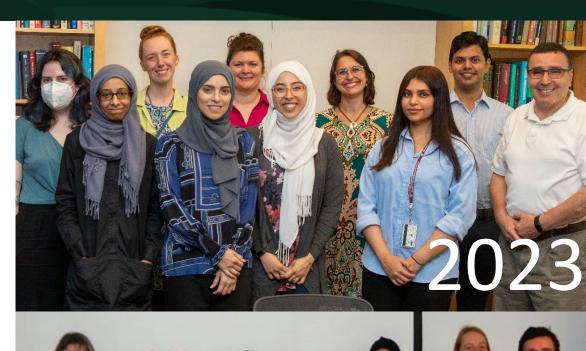
The fellowship was established through an MIT-KFUPM collaboration.

The first fellows were admitted in 2012.





Center for Clean Water and Clean Energy at MIT & KFUPM







Program History



Saudi Aramco

2013 - Saudi Aramco expanded the program



2018 - KACST and MIT signed a 10-year agreement



10th Anniversary Celebration at KACST in 2022



IBK Fellowship - Impact To Date



Fellows: 55 Total Publications: 135

Patents filed: 8 Journal: 80 Conference: 55

Former Fellows in Leadership roles:

Senior Leaders in KSA Government & Academia: 52%

Bridge Leaders investing in the KSA from abroad: 4%



Pictured, the first IBK fellow Dr. Malak Al Nory mentors students for MIT class 2.009 Product Engineering Processes.

Today, Dr. Malak is an Advisor for the Ministry of Energy.



Why come to MIT? Innovation Leadership



MIT is known as an innovation hub

- 1. In 2023 MIT secured 365 utility patents issued by the United States Patent Office.
- 2. 30,000 companies founded by MIT alumni were active as of 2014.
 - Representing 4.6 million jobs
 - Annual revenues of \$1.9 trillion (~ 10th largest economy)



"Being at MIT as an IBK fellow helped me think about the future of science. This experience gave me the tools and mindset to investigate critical areas of research and tackle the most pressing challenges facing our society today and in the future."



Why come to MIT? Mission





"We seek to develop in each member of the MIT community the ability and passion to work wisely, creatively, and effectively for the betterment of humankind."



Why come to MIT? Interdisciplinary & Hands on Research





Lisa Su building housing MIT.nano 20,000 m²

Interdepartmental shared research infrastructure fosters interdisciplinary collaboration & innovation

- Animal modeling and clinical testing
- Cell culture and analysis
- Chemistry synthesis and analysis
- Data analysis
- Fabrication
- Imaging

- Materials production and analysis
- Cleanrooms
- Materials growth
- Maker Space
- 3D Printing
- Computer-aided visualization



Why come to MIT? Location: Kendall Square, Cambridge & Boston

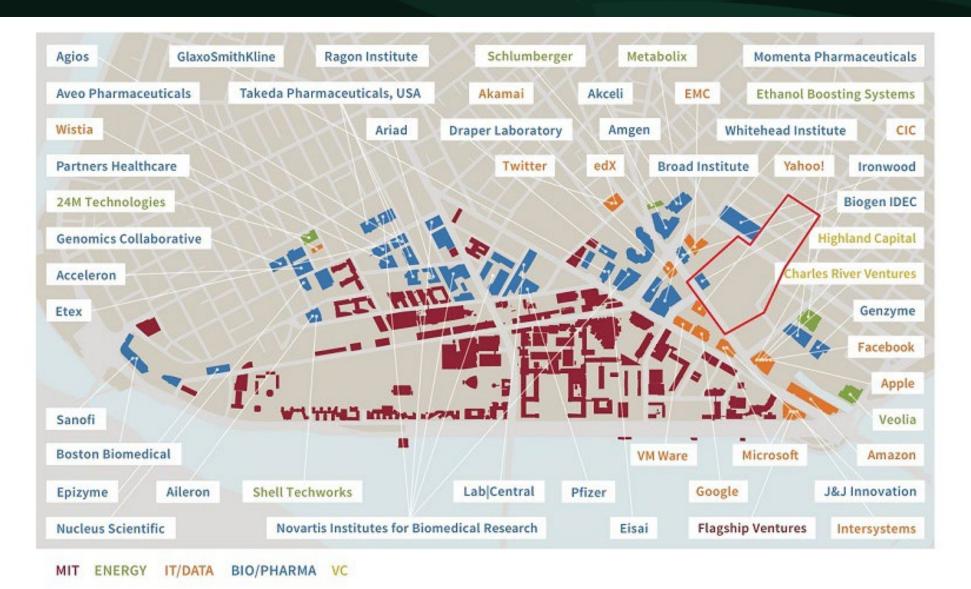






Why come to MIT? Location: Kendall Square, Cambridge & Boston







IBK Fellowship - Overview



The Fellowship is a one or two 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 research group
- Access world-class facilities and support
- Professional development opportunities to supplement research



Dr. Wedyan Babatain & MIT PhD candidate Ozgun Kilic Soft Electronics for Healthcare & the Environment



IBK Fellowship - Overview



Who are the IBK fellows?

- 5 fellows are accepted per year
- Fellows come from top PhD programs mostly in KSA, USA & UK, but also others including Australia and Japan.
- 8.4% acceptance rate for 2024 cohort.
 (MIT graduate programs have 11% acceptance)
- Fellows represent 17+ Saudi institutions in 6+ cities.



Dr. Eman AgeelyGenetics



IBK Fellowship - MIT Host Departments



IBK fellows have worked in 20+ MIT departments including:

- Aeronautics & Astronautics
- Biology
- Computer Science and Artificial Intelligence Lab
- Chemistry
- Koch Cancer Research Institute
- Mathematics
- McGovern Institute for Brain Research
- Mechanical Engineering
- Media Lab
- Nuclear Science & Engineering
- Research Lab of Electronics
- Sloan School of Management





IBK Fellowship - Faculty Matching



IBK fellows have worked with 50 different MIT faculty!

- We help you connect with MIT professors who are a good match for your research interests.
- The IBK team works with new fellows to set up interviews and finding a strong fit.



Kamal Youcef-Toumi



Ahmed Ghoniem



Alex K. Shalek
MEDICIAL ENGINEERING AND SCIENCE & CHEMISTRY



James Wescoat

LANDSCAPE ARCHITECTURE AND GEOGRAPHY



John Gabrieli



John Lienhard



Alexie Kolpak



Alfredo Alexander-Katz Bi



Brandon DeKosky Joh



Jonathan How



Juejun Hu



Christopher C. Cummins



Cynthia Breazeal



Daniel Anderson



Manolis Kellis



Martin Po



Dennis Whyte



Dirk Englund



Elazer Edelman



Michael Short



Mircea Dino



Moe Win
WIRELESS, OPTICAL & SPACE COMMUNICAT:



Fikile R. Brushett



Graham Walker



Guoping Feng



Mriganka Sur



Nasser Rabbat



Patrick Doyle



Hadley Sikes



Heather Kulik



Hiroshi Ishii



Paula Hammond



gof Re



Regina Barzilay



Professional Development Opportunities



The fellowship provides a small allowance to pay for professional development.

It covers partial cost of courses from:

- MIT Professional & Executive Learning
- MIT Sloan School of Management
- Harvard Business School

Or other diverse courses & activities:

- Computer programming languages
- Lab management
- Conferences
- Workshops





Professional Development Opportunities



Many of the richest experiences are free!

- Kaufman Teaching Certificate Program
- Martin Trust Center for Entrepreneurship
- Departmental Communications Labs
- Mentoring UROPs (undergrad researchers)
- LEAdership and Professional Strategies
 & Skills (LEAPS) program
- MIT PostDoc Association
 - workshops
 - leadership opportunities
- & many more



2017 Fellows Drs. Shada Al Salamah, Thamraa AlShahrani, Haleema AlAmri, Sufana AlMashhadi, and Amal AlDossary receive Kaufman Teaching Certificates.



IBK Community - Networking & Collaboration

IBK Tubing Adventure

2023



- Orientation
- Area cultural trips/activities
- Workshops





Resources for Children



- Free, excellent schools for children
- City of Cambridge was the first US public school system to officially recognize Eid al-Fitr holiday
- MIT provides a supplement to help with childcare costs for young children











Apply – Do you fit the criteria?

- 1. Be a woman who is a Saudi Arabian citizen
- 2. Excellent command of spoken & written English
- Demonstrated ability to conduct research
- 4. 2+ publications in peer reviewed journals
- 5. Match with MIT faculty current research
- 6. Ph.D. within 6 years before program start date: September 1, 2019 – August 31, 2025



Dr. Hend Alrasheed Information Technology





Apply – What makes a strong application?

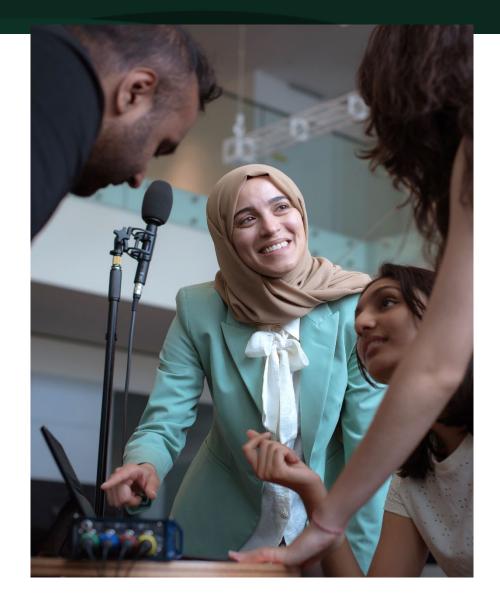
- 1. What impact have you made?
 - Impact of current or recent research
 - b) Describe your area of expertise
 - Two recent recommendations describing your research outcomes and ability





Apply – What makes a strong application?

- 2. Organized plan for research you would like to do at MIT
 - b) What impact are you hoping to make?
 - c) Which MIT faculty have the best research match with these goals?



Dr. Alaa Algargoosh & lab teammates **Architecture - Acoustics**



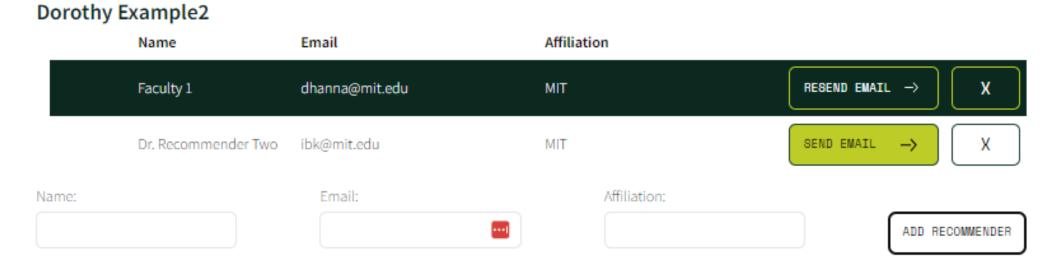


Deadlines:

- Application: Nov 19th, 9am EST
- 2 Rec Letters: Dec 2nd, 9am EST

Required:

- Application form: ibk.mit.edu/application
- Current CV (pdf)
- Most significant publication (pdf)
- 2 Recommendation Letters (use form to request after application submitted)





IBK Application Journey: December - January



December

- IBK team & MIT faculty review applications
- KACST team reviews applications

January

- Decisions made about top candidates
- Top candidates invited for video interviews



Dr. Walaa Khushaim & colleague
Biosensors



IBK Application Journey: February - September



February

Acceptance or feedback letters

March - May

- Accepted fellows meet with potential faculty
- Lab matching decisions made

June - August

US Visa & MIT appointment process



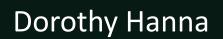
September 2025

Get to know your lab at MIT!

Please visit ibk.mit.edu or email us at ibk@mit.edu for more info.

One of the IBK admin team members will answer your email:







Barbra Williams



Isabel We<u>lch</u>

Thank you



