

Department of Chemistry & Chemical Engineering



Falak Sher (PhD)

Associate Professor and Chair

Department of Chemistry and Chemical Engineering

SBASSE, LUMS

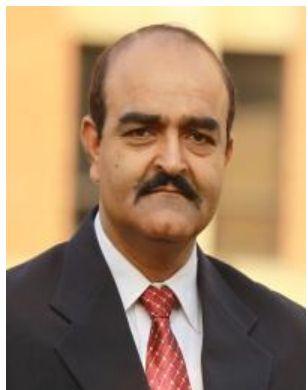
Advisory Board Meeting

January 25–28, 2021

Outline

- Update on Faculty Hiring
- Student Admissions and Placements
- Research Activities and Output
- Challenges

Faculty - Chemistry and Chemical Engineering



Falak Sher
Associate Professor
PhD: University of
Cambridge, UK



Irshad Hussain
Full Professor
PhD: University of Liverpool,
UK



Ghayoor Abbas
Associate Professor
PhD: Michigan State
University, USA



Basit Yameen
Associate Professor
PhD: MPI for Polymer
Research, Mainz, Germany



Rahman Saleem
Associate Professor
PhD: Michigan State
University, USA



Habib-ur-Rehman
Associate Professor
PhD: Institute for New
Materials, Germany



Salman N. Arshad
Assistant Professor
PhD: UIUC, USA



Muhammad Zaheer
Assistant Professor
PhD: University of Bayreuth,
Germany



Muhammad Saeed
Associate Professor
PhD: Tübingen University,
Germany



Ali Rauf
Assistant Professor
PhD: Sungkyunkwan
University, South Korea



Qasim Imtiaz
Assistant Professor
PhD: ETH Zürich
Postdoc: ETH and MIT



Muhammad Shoaib
Assistant Professor
PhD: Sungkyunkwan
University, South Korea

Chemical Engineering Faculty Hiring - Status

1. Dr. Rofice Dickson (joined)

Process modelling and Optimization

Pukyong National University, South Korea

2. Dr. Faheem Akhtar (in process)

Porous materials and polymer membranes

KAUST, Saudi Arabia

3. Dr. Qandeel Almas (offered but she declined)

Biomass based chemicals – catalysis

Georgia Institute of Technology, USA

4. Dr. Atif Pervez (offered but he declined)

Lithium ion batteries

Korea Electro-Technology Research Institute
(KERI) in South Korea; University of Calgary;

Alexander von Humboldt Fellowship

5. Dr. Waqas Aslam (on-hold)

Catalytic conversion of syngas into oxygenated fuels

University of Queensland, Australia

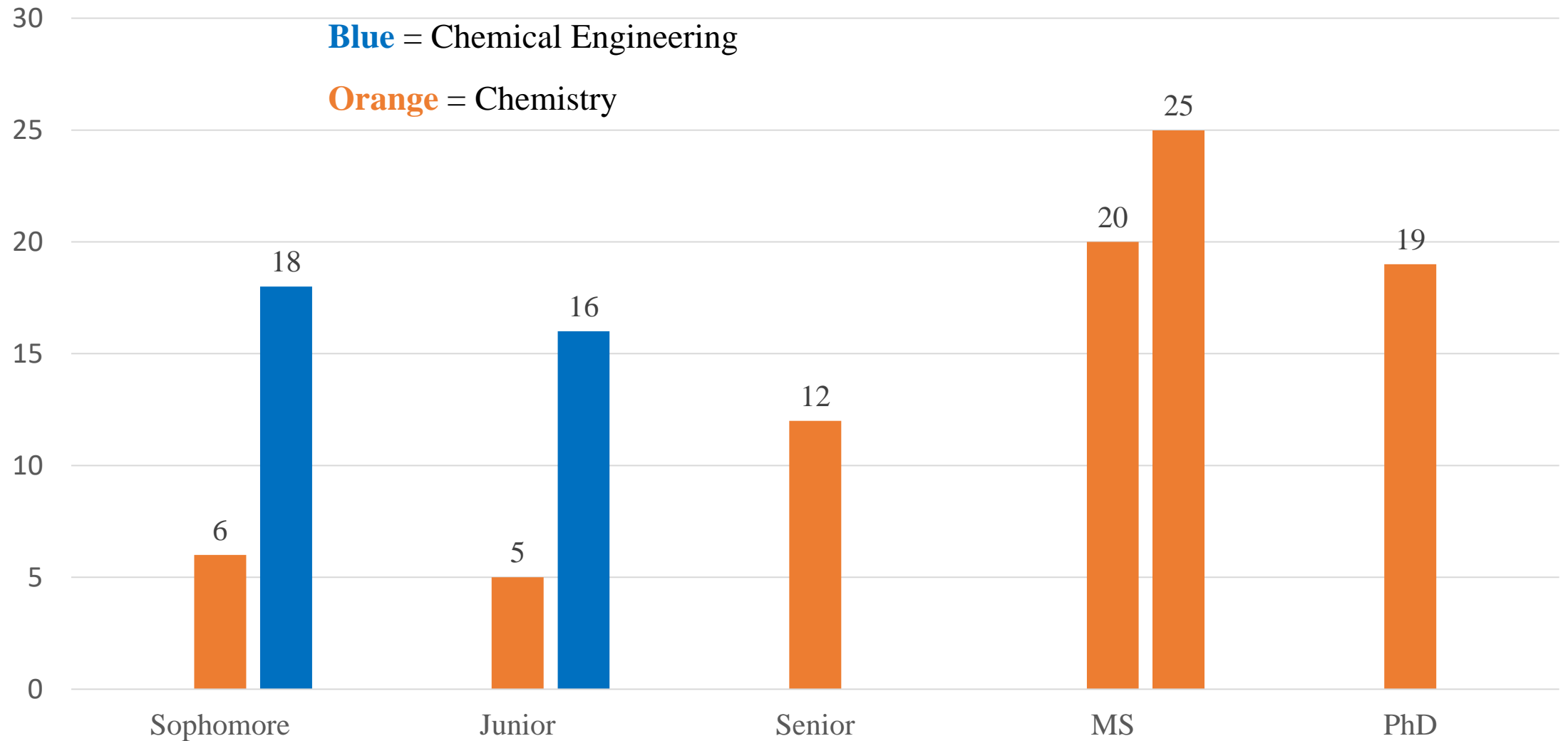
6. Dr. Izzat Cheema (on-hold)

Analysis and optimization of Haber process

Technische Universität Braunschweig,

Braunschweig – Germany

Current Chemistry and Chemical Engineering Students

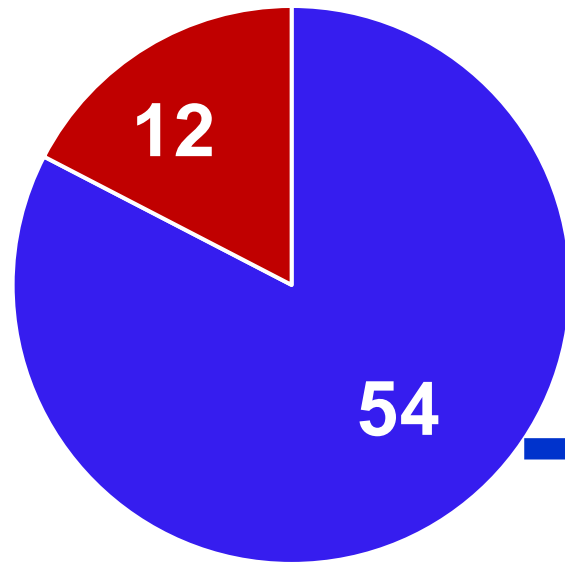


BS Chemistry Program – Placements

BS Chemistry

Total graduated students = 66

Industry/Teaching



Graduate Studies

Industry/Teaching

Teaching (TNS Beaconhouse, LGS, Roots etc.) = 7

Industry = 2

Business = 3

Fully Funded Scholarships in US

Students with cGPA of 3.0 or more = 100% success rate

MIT, Princeton, Chicago, JHU, UIUC, Cornell, Minnesota, UMass, Utah, UC Davis, Texas A&M, Indiana–Bloomington, Rice etc.

PhD Completed = 10

PhD in process = 33

MS = 11

MBA = 3

MS Students/Staff who won

PhD Scholarships = 19

Current students who have
received PhD offers = 11

Admission Offers Received by Chemistry Majors 2021



Muhammad Azhan

Offer



EMORY
UNIVERSITY

IOWA STATE
UNIVERSITY



Azka Arshad

Offer



UNIVERSITY OF MINNESOTA
Driven to Discover™

NC STATE
UNIVERSITY



Hafsa Irfan

Offer



UNIVERSITY OF MINNESOTA
Driven to Discover™



Shikufa Mousavi

Offer



EMORY
UNIVERSITY



Anam Hayee

Offer



THE
UNIVERSITY
OF UTAH

ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

ATM | **TEXAS A&M**
UNIVERSITY


UNIVERSITY OF
SOUTH CAROLINA

U
THE
UNIVERSITY
OF UTAH

Muhammad Hamza Ansar

IOWA STATE
UNIVERSITY

Admission Offers Received by Chemistry Majors 2021

Offer

IOWA STATE
UNIVERSITY

Nawal Zahra Jafari



Binish Ashfaq

Offer



Qasim Qayyum Kashif

Offer

IOWA STATE
UNIVERSITY

Offer



Farwa Awan



Offer



Nabeeha Malik

Placements of Chemistry Alumni



Zain Yousaf

BS Chemistry 2012, LUMS



MS Chemistry, UIUC



**Working at Biogen-Cambridge,
Massachusetts, USA**



Muhammad Affawn Ashraf

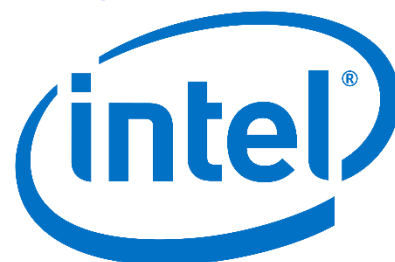
BS Chemistry 2012, LUMS



PhD Chemistry, UMASS



Working at Intel (USA)



Sikandar Abbas Wattoo

BS Chemistry 2013, LUMS



PhD Chemistry, CMU



Working at Intel (USA)



Wardah Ejaz

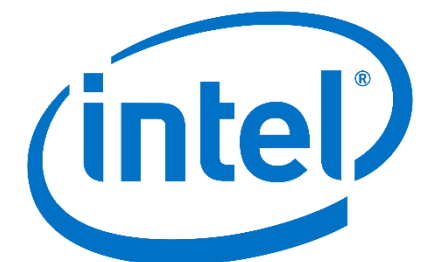
BS Chemistry 2014, LUMS



PhD Chemistry, UMASS



Working at Intel (USA)



Placements of Chemistry Alumni



Waqas Rasheed

BS Chemistry 2013, LUMS



PhD Chemistry, Minnesota



UNIVERSITY OF MINNESOTA
Driven to DiscoverSM

Working at Tate & Lyle (USA)

TATE & LYLE

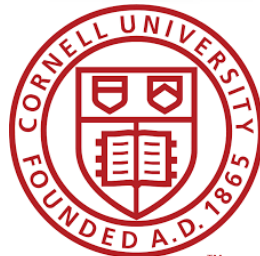


Syed Ali Moeed Tirmzi

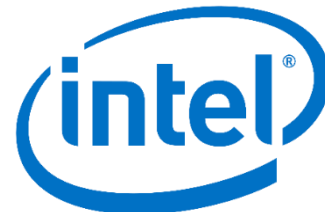
BS Chemistry 2014, LUMS



PhD Chemistry, Cornell



Working at Intel (USA)



Ahmed Yousaf

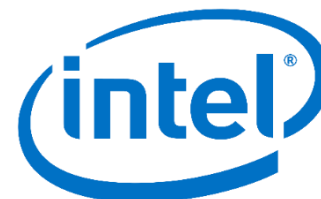
BS Chemistry 2014, LUMS



PhD Chemistry, ASU



Working at Intel (USA)



Syed Muhammad Usama

BS Chemistry 2014, LUMS



PhD Chemistry, Texas A&M



**Working as a postdoc at
Frederick, Maryland, (USA)**



Placements of Chemistry Alumni



Abdul Malik

BS Chemistry 2012, LUMS



PhD Texas Tech University



**Working at OpenEye Scientific
(USA)**



Assad Ullah Khan

BS Chemistry 2013, LUMS



PhD Virginia Tech



**Working at Micron Technology
(USA)**



Safeer Alvi

BS Chemistry 2016, LUMS



MS University of Indiana Bloomington



**Working at Siemens Healthineers
(USA)**



Hassan Javed

BS Chemistry 2015, LUMS



PhD Rice University



**Working at GSI Environmental Inc.
(USA)**





Rashid Khalid

BS Chemistry 2013, LUMS



**Working at TNS Beaconhouse
Lahore Pakistan**



Bilal Umer

BS Chemistry 2013, LUMS



Working at Unilever Pakistan



Ahmad Zaman Qamar

Lab Facilitator at Chemistry, LUMS



**PhD Chemistry, Southern
Illinois University, Carbondale**



**Working as Assistant Professor of Chemistry at
University of Central Arkansas, (USA)**



Aleeza Farrukh

Lab Instructor at Chemistry, LUMS



**Ph.D. in Chemistry from the
Max Planck Institute for
Polymer Research, Mainz**



**Working as Post Doc at
University of California, Irvine (USA)**



Placements of PhD Chemistry Students



Dr. Shazia Mumtaz
Assistant Professor,
Chemistry (BPS-18)
Govt Islamia College
Railway Road Lahore.



Dr. Mira tul Zubaida Butt
Lecturer, Chemistry (BPS-17)
Govt. Hanifan Begum Degree
College
for Women, Mustafabad, Kasur



Dr. Hafiza Tayyaba Shahzadi
Lecturer, Chemistry (BPS-17)
Govt. Degree College for
Women, Ferozwala,
Shiekhupura

Dr. Sharon Riaz
Assistant Professor,
Chemistry
University of Sialkot,
Sialkot



Dr. Uzma Hira
Assistant Professor, Chemistry
school of physical sciences,
University of the Punjab, Lahore



Dr. Akhtar Munir
Assistant Professor, Chemistry
University of Sialkot, Sialkot

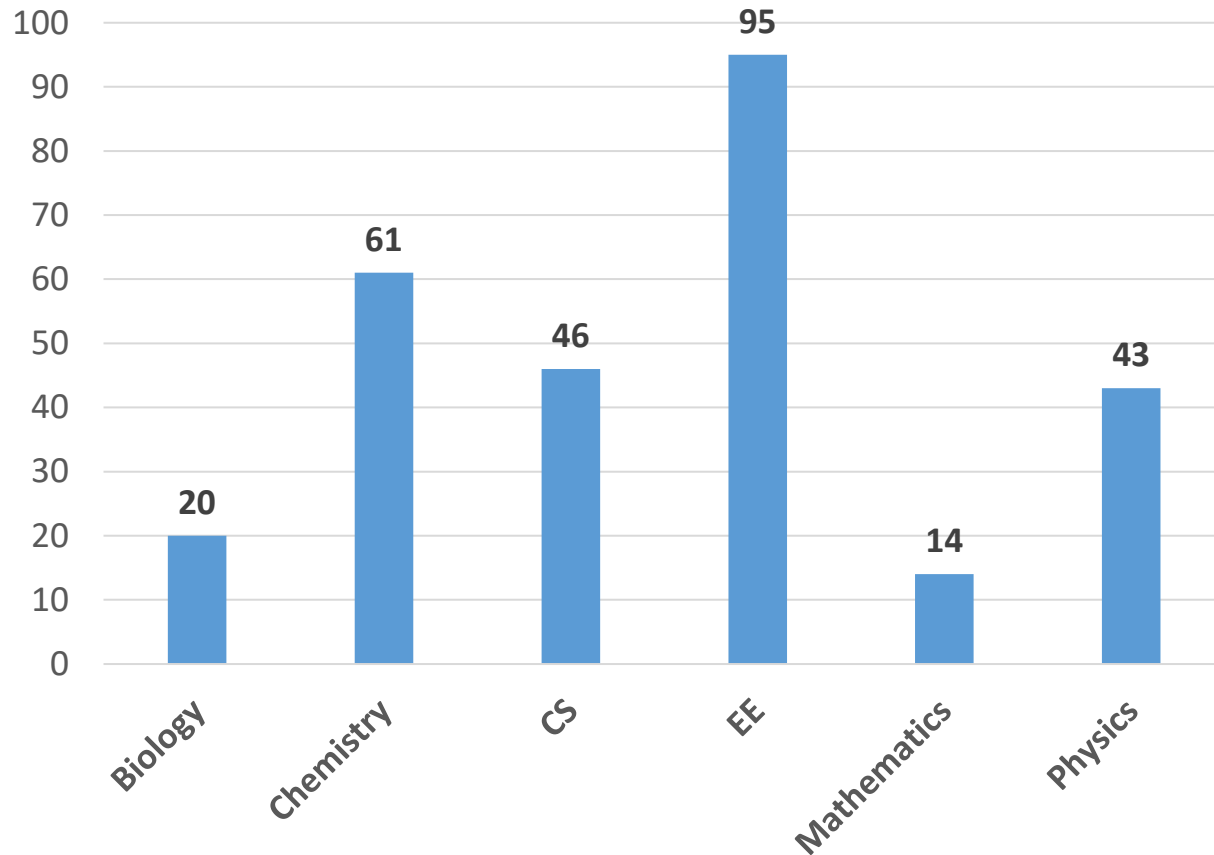


Dr. Soneela Asghar
Post Doctoral Research Assistant
WCAIR, Drug Discovery Unit,
University of Dundee, Scotland,
UK

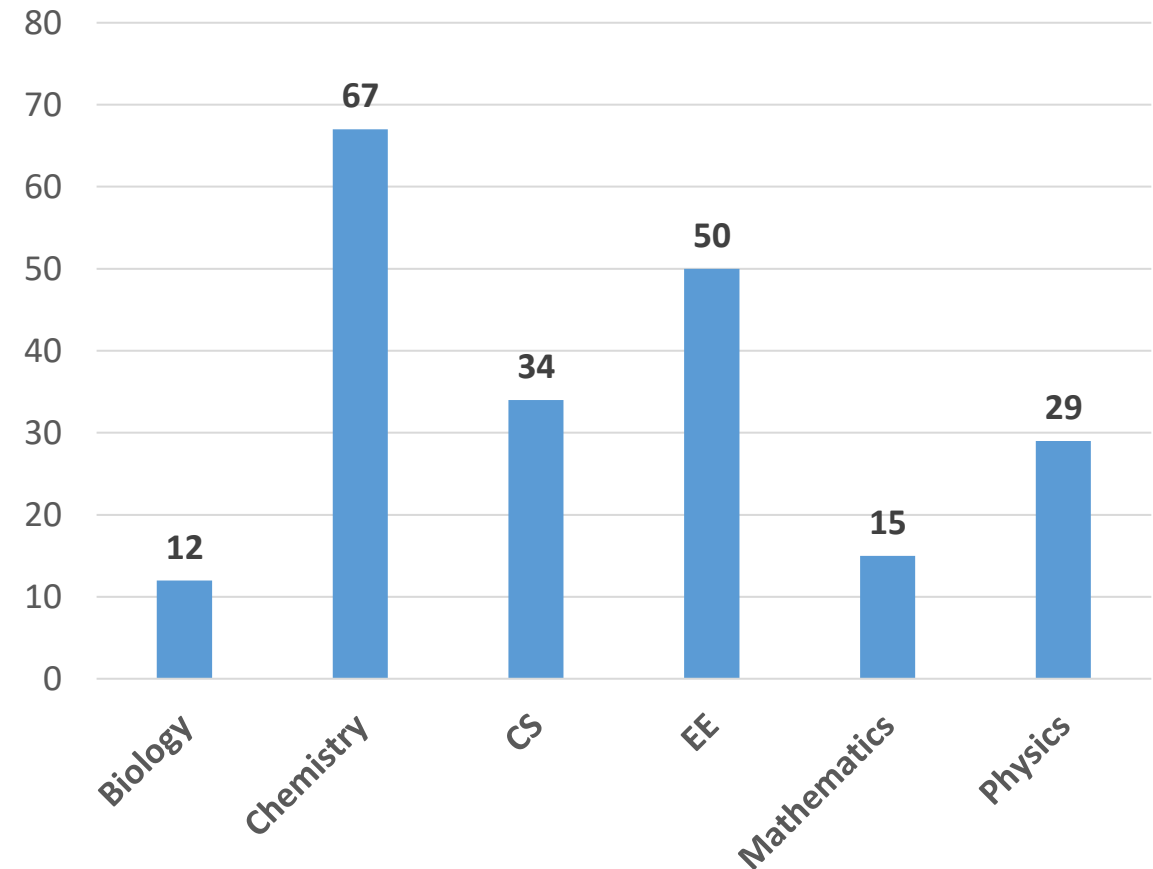
Research Publications

Source: [Publications Dashboard | Office of Research \(lums.edu.pk\)](#)

Research Publications in 2019



Research Publications in 2020



Challenges

- Faculty hiring and retention in the key areas, especially for the Chemical Engineering program
- Enrolment of students in the chemistry major
- Quality of students in the MS chemistry program
- Research grants and limited number of available avenues/resources
- Industry-Academia research collaborations
- Long-term sustainability of Graduate Programs

Thank you