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## Education

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2014 - 2021: Ph.D., Chemical Engineering, Auburn University, Auburn, AL, USA  
2010 - 2012: M.Sc., Chemical Engineering, Sharif University of Technology, Tehran, Iran  
2006 - 2010: B.Sc., Chemical Engineering, Persian Gulf University, Bushehr, Iran

## Research and Professional Experience

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2023 - Present: Assistant Professor of Chemical Engineering, Tuskegee University, Tuskegee, AL 36088  
2021 - 2022: Postdoc Fellow, Johns Hopkins University School of Medicine, Baltimore, MD  
2014 - 2021: Graduate Research Assistant, Department of Chemical Engineering, Auburn University, Auburn, AL  
2014 - 2021: Graduate Teaching Assistant, Department of Chemical Engineering, Auburn University, Auburn, AL  
2011 - 2012: Graduate Research Assistant, Department of Chemical Engineering, Sharif University of Technology, Tehran, Iran  
2008 - 2010: Teaching Assistant, College of Engineering, Persian Gulf University, Bushehr, Iran

## Research Interests

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Biomaterials, Biomimetic Materials, Tissue Engineering, Cancer Metastasis, Cancer-on-a-Chip Platforms, Patient-Derived Xenograft Vascularization, Heart Tissue Engineering, iPSC Cardiac Differentiation, Adipose-derived MSCs, Adipocytes

## Publications - Peer-Reviewed Journals

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1. I. Hassani, B. Anbiah, A.L. Moore, P.T. Abraham, I.A. Odeniyi, N.L. Habbit, M.W. Greene, E.A. Lipke Establishment of a tissue-engineered colon cancer model for comparative analysis of cancer cell lines Journal of Biomedical Materials Research Part A (2023) DOI: 10.1002/jbm.a.37611
2. N.L. Habbit, B. Anbiah, J. Suresh, L. Anderson, M.L. Davies, I. Hassani, T.M. Ghosh, M.W. Greene, B. Prabhakar, R.D. Arnold, E.A. Lipke, Ratiometric inclusion of fibroblasts promotes both castration-resistant and androgen-dependent tumorigenic progression in engineered prostate cancer tissues Advanced Healthcare Materials (2023) DOI: 10.1002/adhm.202301139

3. I. Hassani, B. Anbiah, P. Kuhlers, N.L. Habbit, B. Ahmed, M.J. Heslin, J.A. Mobley, M.W. Greene, E.A. Lipke, Engineered colorectal cancer tissue recapitulates key attributes of a patient-derived xenograft tumor line, *Biofabrication*. 14 (2022) 045001. DOI: 10.1088/1758-5090/ac73b6.
4. N.L. Habbit, B. Anbiah, L. Anderson, J. Suresh, Hassani, M. Eggert, A. Brannen, J.



- ✖ Process Control (Senior class)
- ✖ Unit Operations (Senior class)
- ✖ Chemical Reaction Engineering(Senior class)

## Professional Membership

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Tuskegee University Center for Biomedical Research/Research Centers in Minority Institutions (TU CBR/RCMI) (2024-Present)

Biomedical Engineering Society (BMES) (2018-Present)

Society for Biomaterials (SFB) (2018-Present)

American Association for Cancer Research (AACR) (2018-Present)

Auburn University Research Initiative in Cancer (AURIC) (2018-Present)