

# Piotr Rice

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📍 Detroit, MI 48226

## SUMMARY

Experienced leader in biomedical engineering with over a decade in academia and research. Successfully led innovative projects that fostered collaboration and obtained substantial research funding exceeding \$2 million. Developed impactful curricula, focusing on student engagement and teaching excellence. Published extensively in high-impact journals through a commitment to advancing medical engineering. Established partnerships across institutions, translating research findings into real-world applications. Driven by a vision for the future of biomedical engineering that builds on existing strengths while promoting interdisciplinary initiatives. Eager to contribute passion and expertise to elevate departmental goals.

## EXPERIENCE

### Associate Professor

August 2020 - Present

Innovative Engineering Solutions

*Detroit, MI*

Leads advanced courses in biomedical engineering, fostering an interactive learning environment. Integrates evidence-based approaches into curriculum design and teaching methods.

- Developed and implemented groundbreaking courses focused on cutting-edge biomedical technologies.
- Secured over \$2 million in research grants, elevating the institution's capability and support for innovative studies.
- Collaborated on interdisciplinary research projects, achieving significant advancements in medical AI.
- Mentored graduate students and junior faculty, championing a culture of academic innovation and collaboration.
- Chaired key committees advocating for strategic planning and enriched curriculum policies in biomedical engineering.
- Forged relationships with healthcare enterprises, translating theoretical knowledge into applicable clinical solutions.

### Assistant Professor

June 2016 - July 2020

Advanced Research Institute

*Lansing, MI*

Focused on research and teaching, driving innovative curriculum initiatives in biomechanics.

- Conducted pioneering research in mechanobiology, publishing findings that contributed widely to the field.
- Designed practical-oriented undergraduate and graduate classes reflecting modern biomedical engineering trends.
- Collaboration with researchers globally to solve pressing health-related challenges through engineering principles.
- Initiated community engagement programs enhancing STEM education among diverse groups in the region.
- Ensured laboratory operations met regulatory standards, supporting high-quality research outputs.
- Represented the institute at international conferences, fostering networks and collaboration opportunities.

### Research Scientist

August 2013 - May 2016

University of Michigan

*Ann Arbor, MI*

Led complex research on regenerative medicine, contributing significantly to scholarly articles and clinical applications.

- Implemented large-scale studies focused on tissue engineering innovations aiding regenerative practices.
- Authored numerous publications in peer-reviewed journals, impacting contemporary biomedical research.
- Actively participated in grant submissions, successfully acquiring funding for major initiatives within the department.
- Collaborated closely with clinical partners to bridge research and practical applications effectively.
- Facilitated workshops educating students on research methodologies and ethical considerations in engineering.
- Played a critical role in shaping research objectives during interdepartmental strategy meetings.

## LEADERSHIP & AWARDS

- Outstanding Researcher Award, Innovative Engineering Solutions, 2022
- Best Paper Award, International Conference on Biomedical Engineering, 2019

## EDUCATION

### Ph.D. in Biomedical Engineering

2013

University of Michigan GPA: 3.8

*Ann Arbor, MI*

**Coursework:** Advanced Biomaterials, Tissue Engineering, Medical Imaging, Biomechanics

## CERTIFICATIONS

- Certified Biomedical Engineer (C.B.E.) 📅 2015
- Grant Writing Essentials 📅 2016

TECHNICAL SKILLS

- **Research Methods:** Qualitative, Quantitative, Mixed Methods
- **Statistical Software:** SPSS, R, MATLAB
- **Biomaterials:** Hydrogels, Nanomaterials, Polymers
- **Biomedical Devices:** Wearable Sensors, Diagnostic Tools, Surgical Instruments
- **Health Technologies:** Telemedicine, Mobile Health, Precision Medicine
- **Collaboration Platforms:** Slack, Microsoft Teams, Zoom
- **Presentation Tools:** PowerPoint, Prezi, Canva
- **Laboratory Equipment:** Fluoroscopes, Microscopes, 3D Printers
- **Quality Assurance Standards:** ISO 13485, FDA Regulations, Good Manufacturing Practices
- **Funding Agencies:** NIH, NSF, DOD

SKILLS

- |                          |                                   |                         |                           |
|--------------------------|-----------------------------------|-------------------------|---------------------------|
| • Biomedical Engineering | • Interdisciplinary Collaboration | • Regenerative Medicine | • Community Engagement    |
| • Research Development   | • Leadership                      | • Tissue Engineering    | • Peer Mentoring          |
| • Curriculum Design      | • Student Engagement              | • Biomechanics          | • Data Analysis           |
| • Grant Writing          | • Project Management              | • Medical Imaging       | • STEM Education Advocacy |

PROFESSIONAL AFFILIATIONS

- Member, Biomedical Engineering Society
- Chair, Local STEM Outreach Program

LANGUAGES

- English (Native)
- Polish (Proficient)

ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST