

Piotr Rice

Department Chair, Biomedical Engineering

☎ (313) 555-1234 ✉ piotr.rice@example.com 🔗 linkedin.com/in/piotr-rice 📍 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

Innovative Engineering Solutions 📅 August 2020 - Present 📍 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

Advanced Research Institute 📅 June 2016 - July 2020 📍 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

University of Michigan 📅 August 2013 - May 2016 📍 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

University of Michigan 🎓 GPA: 3.8 📅 2013 📍 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

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|--------------------------|-----------------------------------|-------------------------|---------------------------|
| • 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