As new biomedical product companies continue to emerge and mature in the vibrant health innovation ecosystem, entrepreneurial research and development (R&D) professionals are in high demand—biomedical products encompass everything from drugs and cell & gene therapy to medical technology, including devices, wearables, diagnostics, and digital health.

The Translational Science Certificate provides an integrative and comprehensive understanding of what it takes to innovate in biomedical R&D, from product idea to commercialization, in a rapidly changing environment. The program aims to develop well-rounded aspiring biomedical leaders, innovators, and entrepreneurs, and teach the principles and tools of translational science applied to the discovery/design and development of biomedical products through hands-on didactics and case studies.

Our multidisciplinary faculty team constantly co-develops and updates course content, providing expertise on emerging knowledge and practices in their respective fields, thus ensuring that the certificate program remains up to date in the rapidly evolving discipline that is translational science.

Bring together the knowledge of basic science and the stages of translational research, with a perspective from the business/commercialization point of view to healthcare innovation.

Focus on addressing the needs that actual life science companies or academic groups have in the translational science and/or business areas.

Network with experienced industry leaders and academic subject matter experts.
Key Topics
- Biomarkers
- Omics
- Precision medicine
- Translational imaging
- Intellectual property
- Biotechnology
- Drugs
- Cell & gene therapy
- Diagnostics
- Medical devices
- Digital health
- Regenerative medicine

Benefits
- Online synchronous zoom lessons scheduled during weekdays’ early evening hours for maximum flexibility
- Hands-on curriculum taught by experienced biomedical industry professionals
- Learn immediately applicable skills in the biomedical industry
- Gain practical training to develop as an integrative and entrepreneurial biomedical R&D professional
- Engage in San Diego’s biomedical community and UC San Diego’s academic resources

Course flow

Required Courses
- Translational Research Fundamentals
- Applied Translational Research

Electives
- Applied Translational Research II
- and/or
- Translational Regenerative Medicine

Capstone Project

Become a biomedical leader, innovator, or entrepreneur and accelerate the translation of ideas into high-quality and highly differentiated biomedical products

For more information, visit our website:
Or contact:

Dr. M. Paz Rodriguez, Communication Director
mpr002@health.ucsd.edu