

JENNIFER B. FERD, PH.D.

PATENT SCIENTIST
Philadelphia, PA
267.780.2021
jferd@atllp.com

Jennifer Ferd is a patent scientist in Armstrong Teasdale's Intellectual Property practice group. She focuses on patent preparation, procurement, prosecution, reissues, reexaminations, and appeals before the U.S. Patent and Trademark Office.

She leverages her background and experience in bioengineering, including nanomedicine, antibody and protein engineering, and bioinformatics, to advise clients on inventorship and ownership analyses, portfolio analyses, and freedom-to-operate and validity searches, analyses, and opinions.

SERVICES AND INDUSTRIES

Intellectual Property

Patent

BACKGROUND

Prior to joining Armstrong Teasdale, Jennifer was a Ph.D. researcher in bioengineering at the University of Pennsylvania. Her dissertation focused on development of a tunable polymeric nanoparticle platform for photoacoustic imaging, fluorescence-guided surgery, and photothermal therapy across multiple solid tumor models. She also has hands-on experience in antibody and protein engineering, bioinformatics, and medical physics.

EDUCATION

- University of Pennsylvania (Ph.D., 2026)
  - Bioengineering
  - Howard Hughes Medical Institute (HHMI)/ National Institute for Biomedical Imaging and Bioengineering (NIBIB) Interfaces Scholar
  - Certificate in Medical Physics (Radiation Oncology)
  - Certificate in Teaching (Center for Excellence in Teaching and Learning)
- Hunter College of the City University of New York (B.A., *Hons*, 2026)
  - Mathematics Major
  - Biology Major
  - German Minor

PROFESSIONAL ACTIVITIES

- Patent Pathways (Harrity & Harrity, LLP)
- Penn Biotech Group

CHARITABLE AND CIVIC INVOLVEMENT

- Advancing Women in Engineering (AWE), PhD Advisory Board Executive (2024-present)
- Penn Girls in Engineering, Math, and Science (GEMS), Lead Instructor (2022, 2023, 2025)
- Student Ventures Committee (2024-2026)

ACCOLADES

- World Molecular Imaging Society (WMIS) Young Investigator Award (2024)
- Neuroengineering in Medicine (NAM) T32 Trainee (2025)
- National Science Foundation (NSF) Graduate Research Fellow (2020-2026)
- Penn HHMI-NIBIB Interfaces Fellowship (2020-2026)
- Fontaine Fellow (2020-2026)

LANGUAGES

- Russian

EXPERIENCE

Provisional Patent Materials and Landscape Analysis for Health Care Technology Startup

Preparation of provisional patent materials and competitive landscape analyses for an early-stage startup developing an AI-driven platform for real-time emergency room bed availability, in coordination with clinician user testing.

Technology Transfer Consulting for Research Institute

Consulting engagement supporting the technology transfer efforts of a nonprofit biomedical research institute, including assessment of the commercial potential of early-stage inventions and market and competitive analysis.

Freedom-to-Operate Analysis for Investment Diligence

Analysis of third-party patent landscapes and freedom-to-operate risks for life sciences opportunities as an investment analyst intern, supporting investment diligence at a health care venture-focused firm.

THOUGHT LEADERSHIP

2026

A Compositionally Tunable Micelle Platform for Integrated Photoacoustic Imaging, Direct Visual Guidance, and Photothermal Therapy of Solid Tumors

ACS Applied Nano Materials

2022

VenomFlow: An Automated Bioinformatics Pipeline for Identification of Disulfide-Rich Peptides from Venom Arsenals

Methods in Molecular Biology

2021

Advancing Discovery of Snail Mucins Function and Application

Frontiers in Bioengineering and Biotechnology