Research careers in industry

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Scope of industry
(with background in BMB or related fields)

• Pharmaceuticals (small to large)
  – Chemical and biologics drugs
  – Generics and biosimilars
• Diagnostics
  – Medical tests, translational medicine, biomarkers, companion diagnostics
• Contract research organizations (CROs): supplement all aspects of R&D
  – Specialty reagents, assays and analysis
• Research reagent and instrument providers
• Devices and biomaterials
• Technologies
  – Bioinformatics
  – Systems and synthetic biology
  – Cellular and genetic therapeutics and personalized medicine
• Agra / forensic / others
• Individual companies often encompass several of the above
Research functions: Biotech as an example

• Collaborative projects among individuals with specialized expertise and responsibilities
• Usually hired for a specific need but then what you make of it
• Jobs span the R&D process across multiple departments or functional groups
• Research areas include
  – Candidate discovery technologies (e.g. antibodies)
  – Therapeutic areas (e.g. oncology, immunology)
  – Clinical pharmacology
  – Pathology and toxicology
  – Biomarkers
• Skill areas include
  – Bioinformatics
  – Molecular biology/protein design and engineering
  – Protein expression, purification, biophysical analysis, structure determination
  – Biochemical, cellular and animal assay development/application
Research positions

- Entry from academia with a B.S., M.S., Ph.D. or from a postdoc or faculty position

- Bench scientist

- Group leader

- Department or scientific leader

- Senior manager or senior scientific leader
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