

Jaap Schut, PhD

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SUMMARY

- Experienced innovator, consultant, coach/mentor/advisor, venture partner, adjunct professor, lecturer, speaker, polymer materials scientist, and expert witness.
- PhD + 22 years of experience across global innovation consultancy, industry, research, and education.
- 2 Patents and 13 publications, multilingual, well-traveled, strong international network.
- Self-starter, fast learner, humor, energy, integrity, analytical, curiosity, creativity, compassion, tenacity.

CAREER OBJECTIVES

- **Business:** To contribute in a senior position to an organization's innovation and growth, focused on improving global well-being through new products and services with critical and positive societal impact.
- **Education:** To support the academic growth of students in: innovation, entrepreneurship, consultancy, new product development, marketing, leadership, project management, analysis, and critical thinking.

EXPERTISE AREAS

- **Business & Consultancy:** Global innovation consultancy; New product & business development; Startup coaching; Team leadership & Project management; Strategy; Partnerships; Innovation management; Ideation; Business modelling; Market-customer-technology research; Data analysis; Strategic marketing.
- **Technical:** Materials science: (bio)polymers, plastics, specialty chemicals; Chemistry; Circularity; Cleantech.
- **Education:** Course lecturing, Experiential learning, Curriculum development, Career advice, Mentorship.
- **Languages:** Dutch (native), English, German, French, Spanish (beginner).

PROFESSIONAL EXPERIENCE

INNOVATION CONSULTANCY & NEW PRODUCT/BUSINESS DEVELOPMENT

Project Manager & Consultant

UIDP & UI Collab, Columbia, SC, USA / Nov 2023 – Present

- **UIDP:** Contractor. Wrote *Quick Guides* on innovation ecosystems: 25 p academic/industrial working group.
- **UI Collab:** Project manager & consultant on roster: U-I partnerships, Innovation ecosystems, Blogging.

CEO and Founder

4E Innovation Consulting, Chapel Hill, NC, USA / Mar 2023 – Present

- **Consultant:** Accelerating growth and mitigating risks for startups and mature companies.
- **Mentor:** Guiding entrepreneurs in innovation, customer discovery, NPD (New Product Development).
- **Speaker:** On topics NPD/NBD, Stage gate, Bioplastics, and Circular economy.
- **Expert Witness:** Assisting legal firms in patent litigation & personal injury cases.
- Areas: Materials, Chemicals, Plastics, Sustainability, Cleantech, Energy, Healthcare, Medical Devices.

Venture & Innovation Partner

V&I Consultancy, USA | The Netherlands / Jul 2021 – Jan 2023

- Identified and assessed investment and consulting opportunities in the global chemical and other industries by executing due diligence and business-technology assessments of CAPEX projects.
- Markets: Sustainability, Waste, Energy, Food, Water, Healthcare. Projects in USA, Europe, Middle East, Asia.

VP NBD PACE Business Partners, Amsterdam, The Netherlands | Chapel Hill, NC, USA / Mar 2015 – Jun 2021

- Acquired, led, executed, and delivered global consultancy projects for global chemical/(bio)plastics clients.
- Markets: Composites, Packaging, Medical, Transportation, Oil & Gas, Waste & Recycling, Smart Cities.

Global Market Development Manager

Momentive, Rotterdam, The Netherlands / Feb 2012 – Feb 2015

- Led new (B2B) business development of novel polyols for CASE applications in (now Hexion's) Versatix BU by executing market and customer research, prototype market testing, branding, and pre-launch prep.

New Business Development Officer

Fujifilm, Tilburg, The Netherlands / Apr 2007 – Dec 2011

- Enabled pivot from photography products to NBD and commercialization of gas separation membranes, by market research, customer needs translation to R&D targets, prototype production, and branding.

TEACHING & MENTORING

Lecturer E3P (Environment, Ecology, and Energy Program), UNC Chapel Hill, USA / **Fall 2023 – Present**

- Teaching a cleantech capstone course by designing and instructing group-based projects, enabling student experiential learning in business and innovation consultancy, while advancing startup knowledge.

Adjunct Professor/FA Kenan-Flagler Business School, UNC Chapel Hill, USA / **Spring 2024 – Present**

- Advised a team of 6 EMBA students, as Faculty Advisor (FA) in the STAR program, during a global chemical company consultancy project by mentoring on team dynamics, market research, data analysis, and storytelling for improved teaming, quality advice, timely project delivery, and high client satisfaction.

Mentor/Coach *Miscellaneous, MI & NC, USA* / **Apr 2023 – Present**

- Affiliate Mentor-in-Residence at [Duke New Ventures, Duke University, Durham](#) | Navigator at [First Flight Venture Center, Durham](#) | Entrepreneur Coach at [ZLI-Ross Business School, University of Michigan, Ann Arbor](#) | Startup Coach at [CED-Council for Entrepreneurial Development, Durham](#) | Advisor at [Office of Research Commercialization, NC State University, Raleigh](#).

Entrepreneur-in-Residence KickStart Venture Services, UNC Chapel Hill, USA / **Apr 2023 – Present**

- Enabling entrepreneurs in UNC startups to commercialize research by: 1) Coaching and advising on commercialization/innovation tools, value proposition, business modeling, market/customer needs, and funding, 2) Giving monthly pitch feedback during Advisory Group meetings, 3) Mentoring entrepreneurial fellows in the Venture Catalyst program, and 4) Reviewing KickStart Grant-Award proposals.

Adjunct Full Professor Wilson College of Textiles, NC State University, Raleigh, NC, USA / **Aug 2021 – Present**

- Giving guest lectures to (under)graduates across campus: Innovation, NPD/NBD, Stage Gate, Bioplastics.
- Acting as PhD advisory committee member to student in biomedical textile tissue engineering research.

Industry Mentor NSF I-Corps: Great Lakes Hub | Mid Atlantic Hub, USA / **Apr 2023 – May 2024**

- Coached 2 National teams (2x7w): [Enviroscan-UNC](#) (Apr-May 2024), [Fibarcodes-U Mich](#) (Apr-May 2023) and 3 Regional teams (3x2w): [GoNapSacc-UNC](#) (Jan 2024), [NewCo-UNC](#) (Nov 2023), [Nicelle-NC State](#) (Aug 2023).

RESEARCH

Postdoctoral Researcher Rutgers University, Piscataway, NJ, USA / **Aug 2004 – Aug 2006**

- Elucidated structure-property relations in bioresorbable polymers for medical devices at the Kohn Lab in the New Jersey Center for Biomaterials (NJCBM). *5 publications, 1 book chapter, and 1 patent.*
- Managed the polymer characterization lab. Advised on high-throughput synthesis robot purchase.

Postdoctoral Researcher Institute for Polymer Research (IPF), Dresden, Germany / **Dec 2003 – May 2004**

- Established the reactive processing of otherwise intractable syndiotactic polystyrene by synthesizing and characterizing new thermoset-thermoplastic polymer blends. Lab of Prof. M. Stamm. *1 Publication.*

Researcher Eindhoven University of Technology (TUE), Eindhoven, The Netherlands / **Sep 1997 – May 2000**

- Developed novel poly(meth)acrylate coatings for corrosion inhibition on galvanized steel by synthesizing and characterizing new coating primers. *1 Patent.*

EDUCATION

PhD - Polymeric Materials and Composites INSA, Lyon, France / **Aug 2000 – Dec 2003**

- Thesis: Reactive processing of syndiotactic polystyrene-epoxy polymer blends. *5 Publications.*
- Thesis advisor at INSA (National Institute of Applied Sciences): Prof. J.F. Gérard.

MSc - (Polymer) Chemistry University of Groningen (RUG), Groningen, The Netherlands / **Aug 1991 – Aug 1997**

- Thesis: Fabrication and properties of UHMWPE-Twaron composites for hip implants. *1 Publication.*
- Thesis advisor at RUG (Rijksuniversiteit Groningen): Prof. A. Pennings (inventor of the Dyneema fiber).

PUBLICATIONS, PRESENTATIONS & PATENTS

- List available upon request.