


Tetiana Hryhorchuk

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Summary

Research and Development Engineer with 3 years of experience in materials development, smart wearables, electrochemical testing, artificial muscles, FTIR and IR Shielding materials, mechanical materials testing, thermal conductivity modelling.

Experience

Research Consultant

Northrop Grumman

Feb 2022 - Present (1 year 5 months)

Working at Drexel x Northrop Grumman on research and development of IR shielding coatings with MXenes applying FTIR parametrical studies.

PhD Candidate

Drexel University College of Engineering

Mar 2022 - Present (1 year 4 months)

Performed FTIR studies of MXene IR Shielding properties smart wearable applications

Teaching Assistant

Drexel University College of Engineering

Oct 2022 - Jan 2023 (4 months)

Grading student homework, lab assignments, final test and final presentation and modifying lectures content for MATE 280 Advance Materials Characterization Techniques

Social Media Manager

Drexel University College of Engineering

Oct 2020 - Jan 2023 (2 years 4 months)

Responsible for Drexel Nanomaterials Institute Official YouTube Channel and took care of managing DNI Labs video content

Research Consultant

Accenture

Nov 2020 - Feb 2022 (1 year 4 months)

Worked at Drexel x Accenture Labs on developing flexible supercapacitor to power peripheral electronics for temperature data collection

PhD Research Assistant

Drexel University College of Engineering

Oct 2020 - Feb 2022 (1 year 5 months)

Performed chemical synthesis for smart wearable supercapacitors, followed by electrochemical and voltammetry testing

Proposal Consultant

Meta

Oct 2021 - Nov 2021 (2 months)

Leading efforts on writing smart wearables research proposal at Drexel x Meta Research Labs. The project got accepted for further funding.



Visiting Researcher

Drexel University College of Engineering

Jul 2020 - Sep 2020 (3 months)

Performed research on artificial muscles testing and implementation for smart wearable garments



Research And Development Engineer

HEIG-VD

Jan 2020 - Jun 2020 (6 months)

Designed transparent organic electrodes at Erasmus CNE x COMATEC-LANS Labs verified by ANSYS thermal conductivity model



Design Engineer

Frantcevyh Institute for Problems of Materials Science

Sep 2017 - Aug 2018 (1 year)

Designed and characterized TiC2 electrodes, followed by fracture toughness measurements, nanoindentation and Rigaku X-Ray analysis.



Undergraduate Research Assistant

National Technical University of Ukraine 'Kyiv Polytechnic Institute'

Dec 2016 - Sep 2017 (10 months)

Performed powder composites sintering, 3-points bending, zone-melting, PTC CREO & CESGRANTA analysis



Contract Technical Writer

CeBiTec - Center for Biotechnology (Bielefeld University)

Aug 2016 - Aug 2016 (1 month)

I was organising workshops on innovation methods in scientific writing at PunktUm Summer School x Bielefeld University and recieved C1 Technical German Language certification



R&D Manufacturing Associate

Otto-von-Guericke University Magdeburg

Jun 2016 - Jul 2016 (2 months)

I was responsible for high-temperature eutectic Mo alloys developing for gas & jet turbines production. Methods were validated at Volkswagen AG, Enercon GmbH & Sintermetalltechnik GmbH

Assistant Database Administrator

City Business School UA

Jul 2011 - Jun 2013 (2 years)

Performed administration of School Database via MS Access, school website HTML CSS design, CorelDraw visual graphics design

Education

Aix-Marseille University

Master of Science - MS, Erasmus Mundus Chemical Nanoengineering

2018 - 2020

Syllabus focused on Chemistry Fundamentals

University of Rome Tor Vergata

Master of Science - MS, Erasmus Mundus Chemical Nanoengineering

2019 - 2020

Syllabus focused on Chemical Engineering

Wroclaw University of Science and Technology

Master of Science - MS, Erasmus Mundus Chemical Nanoengineering

2019 - 2020

Syllabus focused on Industrial Engineering Applications


National Technical University of Ukraine 'Kyiv Polytechnic Institute'

Bachelor of Science - BS, Material Science

2013 - 2017

Syllabus focused on Thermodynamic & Mechanical Properties of Composite Materials

Licenses & Certifications

 **European Business Models Benchmarking - Faculté Jean-Monnet**
587138-EPP-1-2017-1-UA-EPPJMO-MODULE

 **PhoBiA Nanophotonics International Conference - Wroclaw University of Science and Technology**

 **Graduate Record Examinations - GRE® General Test**

 **IELTS 7.0 C1 Level - IELTS Official**



Drexel Nanomaterials Institute Laboratory Safety Training - Drexel University



Strategic Leadership - University of Illinois Urbana-Champaign

Skills

Nanomaterials • Material Analysis • Adobe Photoshop • International Relations • Scientific Writing • Social Media • Social Media Communications • Digital Photography • Photography • Computer-Aided Design (CAD)

Honors & Awards



NTUU KPI Scholarship Awarded for Excellent Academic Achievements -

Verkhovna Rada of Ukraine

Sep 2014



Chemical NanoEngineering Erasmus Joint Master Degree Scholarship - Erasmus

Mundus

Sep 2018



GDUF OVGU Scholarship Award for Advances Achieved in Engineering

Research - GDUF OVGU

2016



Research Assistantship - Drexel University

Jul 2020



DAAD Summerschool Scholarship - DAAD

Aug 2016