



"Horizon Europe Marie Skrechnical Assistance for Turkey in Horizon 2020 Phase-II's Bridging Business and EuropeAid/139098/IH/SER/TR Research

Opportunities under MSCA Staff Exchanges"

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Resume



Bu proje Avrupa Birliği ve Türkiye Cumhuriyeti tarafından finanse edilmektedir This project is co-funded by the European Union and the Republic of Türkiye

> TURKEYin RIZON 2020



- 2017-2022 İTÜ Textile Engineering
- 2020-2021 Grade Zero Espace

In 5 years: 5 EU projects + 5 TÜBİTAK projects ↓ ↓ 2 Million € 2 Million TL

- 2015-2016 Postdoc, Mechanical & Aerospace Eng
- 2011-2015 PhD, Fiber & Polymer Sci. Co-majar in Materials Sci & Eng
- 2009-2011 M.Sc., Textile Chemistry



• 2003-2007, B.Sc., Textile Engineering









RETEX



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Budget: 814.200 € Duration: 48 Months











Project architacture

















Project architacture

















Keysone of the project:





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TURKEYin IORIZON 2020

'The Deakin team has found a solution to the dyeing process, a known stumbling block in recycling fabric'













Knowledge Transfer





WP1. To develop regenerated fibers from cotton waste WP2. To combine advanced materials with sustainable textile materials WP3. To design & develop e-textile prototypes from regenerated cotton WP4. Sustainability assessment

Emphasize the Interdisciplinary & Multidisciplinary aspects of the project











WP2





WP2: To combine advanced materials with sustainable textile materials Research Objective 2: To combine Conyar®, CNT, and AgNW with regenerated fibre from cotton waste

Conyar B.V.













WP3







WP	Smart textile prototypes made of sustainable textile materials	Lead Partner
3.1	Energy harvesting yarn	GZE
3.2	Flexible electrical interconnections	Delft
3.3	Posture controlling shirt	MU
3.4	Music controller apparel	Spell











WP4







WP4: Sustainability assessment of materials and prototypes developed in WP1, 2, and 3
Research Objective 4: To design and implement a sustainability assessment framework model that can be used for RETEX innovations both during and after the RETEX project. (WP4)











WP6-7







R

CONSULT INTERNATIONAL



CHelix

BEIA



C, DI

M, C, T

COLLABORATION INTELLIGENCE













Consortium



11 partners (4 universities, 1 research org., and 6 SMEs) from 8 countries and 2 continents.













How to build the consortium



쯭 Dec 4, 2019, 4:30 PM 🛛 🛧 🕤

Alper Gurarslan <agurars@ncsu.edu> to k.m.b.jansen, ozguratalay 💌

Dear Dr. Jansen,

We, Assoc. Prof. Dr. Atalay and Ass. Prof. Dr. Gurarslan, Marie Curie fellows at Istanbul Technical University, with a vast expertise on wearable electronics and we are looking for expert in electronic textile applications. After examining your profile from https://www.tudelft.nl/en/ide/research-labs/emerging-materials-lab/smart-textiles/meddy/ we are confident that you can be a key partner in our MSCA RISE projects regarding the development electronic textiles made of sustainable materials and their implementations in various fields.

We are confident that the success of this project because;

- Focus of the project is wearable electronics that is a rapidly growing market, (market will be worth over 7,5 billion Euros with in next 3 years)

- EU is paying upmost attention on consumption of sustainable materials rather than hazardous plastic counterparts.

-Multidisciplinary project that combines health, electronics, social behaviors, textiles manufacturing, materials science, fashion industry and sustainable materials.

-We have strong consortium composed of industrial and partners from all over Europe and 3rd country.

We have an extensive experience on Marie Curie projects and other international projects we believe with your experience in this area, will be able to deliver an outstanding project in the area of sustainable electronic textiles.

We would like to discuss the details either on the phone, skype or through emails.

Best Regards,

Özgür Atalay & Alper Gürarslan









Alignment with the Call







Table 6. Particular scientific objectives and knowledge transfer mechanisms and reintegration action during the secondments

#	Туре	From	То	Duration	WP	Scientific objective	Transfer mechanism	Reintegration action
		(Home)	(Host)	(Month)				











Staff From

Alignment with the Call





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Table 9. Core research skills (acquired during secondments in individual tasks).











Conclusion



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*Partners with different expertieses

*Everything has to align with the call and organized neatly

*Emphasize the Interdisciplinary & Multidisciplinary aspects of the project

*Emphasize the knowledge transfer

*Impact on the Career Developments of the researchers

*Defects determines the strength











Acknowledgement













