

# Fortum Foundation Grants 2019

## Ahmad Zeeshan

Efficient use of renewable fuels into off-road heavy-duty diesel engines

## Balint Roland

Boiler deposit aging – the influence of temperature gradient on intra deposit transport phenomena and sintering processes

## Dahal Roshi

Fractionation and purification of pyrolysis oil obtained from co-pyrolysis of biomass and waste

## Ding Chao

Exploring the boundaries of energy conservation – studies on the electricity use of Finnish households

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## Eronen Eemeli

Muovijätteestä hydrotermisellä nesteytyksellä valmistettujen öljyjen koostumuksen tutkimus korkean erotuskyvyn massaspektrometrialla

## Hashmi Syed Farhan

Conversion of lignin to renewable monoaromatic phenols through depolymerization

## Heliövaara Eeva

Kullan liotus orgaanisiin liuottimiin – moderni menetelmä metallien kiertotalouteen

## Huhta Kaisa

Apuraha tutkimustyön kansainvälistymistä edistävään ulkomaiseen tutkimusjaksoon

## Hurskainen Maisa

Protectionism and Global Value Chain Governance in solar photovoltaics industry: Safeguarding efficiency through risk anticipation

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## Jambrina Gomez Ana

SMR Safety Analysis and Design Framework

## Jogi Ramakrishna

An integrated process for the production of green aviation fuel range cycloalkanes through hydrothermal liquefaction of lignocellulosic biomass

## Juhola Riikka

Teollisuuden sivuvirtojen ja biomassojen hyödyntäminen vedenpuhdistuskemikaaleina

## Kajas Ninja

Aurinkokennon valmistusprosessin kehittäminen

## Kallio-Myers Viivi

A hybrid weather satellite – weather model forecasting system for surface solar radiation over Fennoscandia

## Karebi Lillian

Experimental methods to quantify the filtration efficiency of soft particles in biofuels

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## Leskinen Niina

Hajautetun energiatuotannon kannattavuus kiinteistösjoittajien näkökulmasta

## Luhtala Roni

Älykäs tehoelektroniikka: Reaaliaikaisesti sähköverkon olosuhteisiin optimoitu säätöjärjestelmä

## Mankinen Otto

Ainutlaatuisen ultranopean mittausmenetelmän julkistaminen tieteellisessä konferenssissa

## Martinmäki Sami

Development of new distributed voltage control in low voltage networks based on practical experiments considering modern components

## Mesceriakovas Arunas

Doctoral Student / Early Stage researcher

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## Murashko Kirill

Uncertainty of the Entropy Change Calculation by cylindrical Li-Ion cell heat flux measurements: temperature and C-Rate effect

## Mäkelä Severi

Atom distribution analysis of III-V/Ge heterojunction for MBE Grown High Efficiency Solar Cells

## Paulraj Thileepan

Machine Learning Based Automated wind turbine noise recognition system

## Peltonen Lasse

PhD thesis: Assessing dynamic response of microgrids under various grid conditions and the dynamics between microgrids and traditional power systems

## Ramu Prabudeva

Ultrathin, light and flexible devices for photonic applications

## Rusanen Annu

Sahanpurun muuntaminen korkean lisäarvon tuotteiksi: 5-hydroksimetyylifurfuraali ja furfuraali

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## Salonen Pasi

Bioinspiroidut molybdeeni,- volframi- ja vanadiinikomplektit teollisesti merkittävien hapetusreaktioiden katalyytteinä

## Seefried Sarah

PhD thesis: Catalytic carboxylations with CO<sub>2</sub> mediated by novel Bi/N Frustrated Lewis Pairs

## Solokha Vladimir

Research of the isotope effect in JET divertor plasmas

## Sugano Junko

Analysis of gene expression of lignocellulose enzymes by co-cultured basidiomycetes for utilization of woody biomass

## Tuomela Sanna

Käyttäjälähtöinen, arvoperustainen energiayhteisö. Väitöstutkimus.

## Vuerte Maisa

Adsorption of impurities in bio-based oils for oil purification

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## Wang Luyao

Tunable functional materials based on well-defined and well-characterized lignin fractions

## Xu Xiaoqian

Efficient land use scenarios for regional biomass production of multiple ecosystem-services at landscape level

## Zhang Yongchao

Researcher in the field of wood and paper chemistry