

## ERRIN Bioeconomy Project day

### 1. Your role in the project

**I will be the project leader of the project:** Yes

*If leading a proposal, principal researcher in charge:*

I am looking for a project leader:

### 2. The Organisation

**Name of the organisation:** University of Wolverhampton

**Contact details:** [M.Kowalczyk@wlv.ac.uk](mailto:M.Kowalczyk@wlv.ac.uk)

**Type of organisation:** University

### 3. The Call

*(You may refer to the calls listed in the registration form on ERRIN website)*

**Call identifier:** SFS-35-2017

**Full topic:** Innovative solutions for sustainable food packaging

**Deadlines:** 14.02.2017

#### 4. The Project Idea

**Short description of the project idea (Max. 15 lines):**

In the proposed project we will attempt to originally use mixed plastic wastes (MPW) as low cost carbon sources for biopolymer p

**Main objectives:**

This multi-disciplinary proposal focuses on the conversion of mixed plastic waste (MPW) into value-added bioactive and biodegrad

**Specific objectives:**

- Adjustment and characterization of wax derived from MPW pyrolysis process to be used as carbon source in fermentations for bio

**List of potential activities:**

Development of fermentation process (WP1) • Development of bioactive polymer and oligomeric products (WP2) • Processing and eval

**List of expected project outputs:**

Determination of optimal fermentation conditions for fermenting of MPW with desired polymer structures and yields. Identificatio

#### 5. Partner profile (if relevant for the project, please do fill this box)

**Type of partners sought** (research institute, SME, industry, public body, etc.):

**Partners sought from specific countries/ regions:** Germany and CE countries

**Estimated weight of SME's and Large Industries in the proposal:** 30 %