

## Curriculum Vitae

### Personal Information

Name **Kornél TAMÁS, PhD**  
E-mail [tamas.kornel@gt3.bme.hu](mailto:tamas.kornel@gt3.bme.hu)

### Work experience

Duration **1<sup>st</sup> August 2022 –**  
**Associate professor**

Duration **1<sup>st</sup> January 2017 –1<sup>st</sup> January 2022**  
**Assistant professor**

Duration **1<sup>st</sup> January 2012 – 1<sup>st</sup> January 2017**  
**Assistant lecturer**

Occupation or position held  
Name and address of employer  
Budapest University of Technology and Economics, Faculty of Mechanical Engineering,  
Department of Machine and Product Design, 1111 Budapest, Bertalan Lajos street 4-6.

### Education and training

Duration **2008-2016**  
Title of qualification awarded **PhD**  
Principal subjects / occupational skill covered **mechanical engineering, modelling the soil-tool interaction, discrete element modelling**

Name and address of organisation  
Budapest University of Technology and Economics /1111 Budapest, Műegyetem rakpart  
3. Mg 110

Duration **1998-2003**  
Title of qualification awarded **MSc in Industrial Design Engineer**

Name and address of organisation  
Budapest University of Technology and Economics /1111, Budapest, Bertalan Lajos  
street 4-6.

**English** Intermediate level language exam  
**German** Basic level language exam

### Selected publications

Horváth Dániel, Poós Tibor, **Tamás Kornél**: Modeling the Movement of Hulled Millet in Agitated Drum Dryer with Discrete Element Method, COMPUTERS AND ELECTRONICS IN AGRICULTURE 162: pp. 254-268., 2019; IF: 3.171, WOS, (D1).

**Tamás Kornél**: The role of bond and damping in the discrete element model of soil-sweep interaction, BIOSYSTEMS ENGINEERING 169: (5) pp. 57-70., 2018; IF: 2.983, WOS, (D1).

**Tamás Kornél**, Oláh Zsófia, Rácz-Szabó Lilla, Hudoba Zoltán: Investigation Of Soil-Sweep Interaction In Laboratory Soil Bin And Modelling With Discrete Element Method, In: Lars, Nolle; Alexandra, Burger; Christoph, Tholen; Jens, Werner; Jens, Wellhausen (szerk.) ECMS 2018 Proceedings, ECMS-European Council for Modelling and Simulation (2018) 0881, 2018

**Tamás Kornél**, Földesi Bernát, Rádics János Péter, Jóri J. István, Fenyvesi László: A Simulation Model for Determining the Mechanical Properties of Rapeseed using the Discrete Element Method, PERIODICA POLYTECHNICA-CIVIL ENGINEERING 59: (4) pp. 575-582., 2015; IF: 0.636, WOS, (Q2).

**Tamás Kornél**, Jóri J István: The Influence of the Soil Water Content in the Soil-Tool DEM Model, PROGRESS IN AGRICULTURAL ENGINEERING SCIENCES 11: (1) pp. 43-70., 2015; (Q4).

**Kornél Tamás**, István J Jóri, Abdul M Mouazen: Modelling soil-sweep interaction with discrete element method, SOIL & TILLAGE RESEARCH 134: pp. 223-231., 2013; IF: 3.824, WOS, (D1).

**Full publication list:**  
<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10042752&view=simpleList>