## ***RIS Internship Master thesis opportunities***

## ***Acad. year 2023/24***

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| Host institution name | Colas Északkő Ltd. |
| Host institution field | Mining / Geo-sciences and geotechnology / Extractive waste management/ Materials science/ Metallurgy / Recycling / Other (specify) |
| Tentative topic of the master thesis | Correlation of rock physics (MDE, MS...) parameters with the mineral components |
| Short description (several sentences) | A review of the literature.  Sampling in the quarries of Colas Északkő Ltd.  Rock physical tests of the individual raw materials in the laboratory of Colas Északkő Ltd.  Testing of components in the laboratories of the University of Miskolc (rock thin-section identification, XRF, XRD...)  Determining the mineral composition and rock physical parameters.  Geological modeling of the investigated area. |
| Key words | mineral composition, rock, thin section, rock physics |
| Please select if applicable | Laboratory work  Field work  Available datasets  Literature overview  Other (please specify) |
| Preferred educational background of the intern | Mining / geology / ecology/biology / chemistry / waste management / civil engineering / mechanical engineering / environmental engineering / metallurgy / economy/management |
| We accept | International students / National students / EIT Labelled students / SinREM/ Amir / Emerald / TimRex |
| Chose tentative months (Internship related to MSC thesis in 2023/24 should be e accomplished between October 2023 and latest May 2024) | October 2023 (zero grant)  November 2023 (zero grant)  December 2023 (zero grant)  January 2024 (full scholarship)  February 2024 (full scholarship)  March 2024 (full scholarship)  April 2024 full scholarship)  May 2024 (full scholarship) |
| Industrial supervisor | TOMPA, Richárd: richard.tompa@colas.hu |