2026 Transdisciplinary Network Formation Projects

List of Approved Proposals

The “Transdisciplinary Network Formation Project” is a Joint Usage/Research project established to promote the “Transdisciplinary Network Linking Space-Earth Environmental Science, History, and Archaeology (TranSEHA),” launched in September 2024 under the MEXT Promotion of Development of a Joint Usage/Research System Project: Coalition of Universities for Research Excellence Program (CURE), with the ISEE serving as the core institution.

27 proposals

＊In principle, proposer’s affiliation and department in this list are based on the application.

Contents	Principal Investigator	Affiliation＊	Project Title
01) International Joint Research	Mariko Yamagata	Institute for the Study of Ancient Civilizations and Cultural Resources, Kanazawa University	Reconstruction of the History of the Champa Kingdom through the Investigation of the Actual Conditions of Thanh Loi Citadel in Central Vietnam and Enhancement of Archaeointensity Model
02) ISEE International Joint Research Program	Hari Haran Balakrishnan	Tata Institute of Fundamental Research (TIFR)	Studies of solar and heliospheric modulation during the past two solar cycles using GRAPES-3 muon telescope
02) ISEE International Joint Research Program	Sergey Koldobskiy	Sodankylä Geophysical Observatory & Space Physics and Astronomy RU, University of Oulu	Quantifying Solar Activity and Hemispheric Asymmetry During the Maunder Minimum Using Modern Statistical Reconstruction
04) General Joint Research	Yuhji Yamamoto	Marine Core Research Institute, Kochi University	Archaeomagnetic study of Taiwanese pottery
04) General Joint Research	Tetsuya Shinozaki	Department of Civil and Environmental Engineering, Faculty of Science, Engineering and Society, Chuo University	Determination of the age of a natural hazard event by tree-ring dating method with an error of zero years
04) General Joint Research	Tetsuya Shinozaki	Department of Civil and Environmental Engineering, Faculty of Science, Engineering and Society, Chuo University	Precision long-term paleoclimate reconstruction using a combination of peat deposits and tree rings
04) General Joint Research	Tetsuro Satoh	Marine Core Research Institute, Kochi University	Paleomagnetic dating of bricks as building material
04) General Joint Research	Yu Kitahara	Asian Archaeology Research Center, Kyushu University	Dating of sediments from the lower reaches of the Thu Bon River in Central Vietnam and Hong River in Northern Vietnam
04) General Joint Research	Masataka Hakozaki	National Museum of Japanese History	Dendrochronological Analysis of Yakusugi Woods to Form the Basis Data for High-Precision Dating and Climate Reconstruction in Southwestern Japan
04) General Joint Research	Koji Murata	Faculty of Library, Information and Media Science, University of Tsukuba	Philological and Astronomical Study on Solar Eclipse Records from the Byzantine Empire

Contents	Principal Investigator	Affiliation*	Project Title
04) General Joint Research	Chie Kato	Faculty of Social and Cultural Studies, Kyushu University	Data integration for maximizing archaeological and geoscientific information derived from magnetic analysis of archaeological materials
04) General Joint Research	Minoru Sakamoto	National Museum of Japanese History	Regional effects of atmospheric ^{14}C concentrations in the 2nd to 3rd centuries
04) General Joint Research	Yutaka Yoshimura	Faculty of Social and Cultural Studies, Kyushu University	Did a short-term large geomagnetic field intensity variation occur around AD175? Validation using Yayoi pottery from the Kokujaku archaeological site
04) General Joint Research	Satoshi Sasaki	Cooperative Faculty of Education, Gunma University	Re-examination of the chronostratigraphic using marine fossils from Kawai sandstone and mudstone Member, Gunma Prefecture, Japan
06) Research Meetings	Hisashi Hayakawa	Institute for Space-Earth Environmental Research, Nagoya University	International Symposium on Historical Astronomy 2026
06) Research Meetings	Yasuhiro Murayama	Research and Development Laboratory, Kyoto University Library	Science Data Symposium
08) Database Management	Kazuya Tanaka	Advanced Science Research Center, Nuclear Science Research Institute, Japan Atomic Energy Agency	Creation and open-sourcing of nationwide onsen digital database
08) Database Management	Yoshitaka Itow	Institute for Cosmic Ray Research, The University of Tokyo	Meta-database for radiation monitoring related to Fukushima-Daiichi Reactor Accident and its application
08) Database Management	Shoichi Ogio	Institute for Cosmic Ray Research, The University of Tokyo	Digital archiving of literature on the establishment of the cosmic-ray research community
08) Database Management	Tadahiro Hatakeyama	Research Institute of Frontier Science and Technology, Okayama University of Science	Enhancement of the Japan Archeomagnetic Database and integration with the Transdisciplinary Network Databases
08) Database Management	Masahito Nose	Graduate School of Data Science, Nagoya City University	Use of Artificial Intelligence in a metadata conversion system to enhance findability and searchability of research data
08) Database Management	Qi Zhang	Joint Support-Center for Data Science Research, ROIS	Building a Semantic Knowledge Framework for Cross-Disciplinary Data Integration

Contents	Principal Investigator	Affiliation*	Project Title
09) Joint Usage of Accelerator Mass Spectrometry	Masao Ban	Faculty of Science, Yamagata University	Radiocarbon dating of buried wood contained in large-scale landslide deposits at the summit area of Zao Volcano
09) Joint Usage of Accelerator Mass Spectrometry	Yu Kitahara	Asian Archaeology Research Center, Kyushu University	Dating of sediments from the lower reaches of the Thu Bon River in Central Vietnam and Hong River in Northern Vietnam
09) Joint Usage of Accelerator Mass Spectrometry	Mariko Yamagata	Institute for the Study of Ancient Civilizations and Cultural Resources, Kanazawa University	Reconstruction of the History of the Champa Kingdom through the Investigation of the Actual Conditions of Thanh Loi Citadel in Central Vietnam and Enhancement of Archaeointensity Model
09) Joint Usage of Accelerator Mass Spectrometry	Minoru Sakamoto	National Museum of Japanese History	Inter-laboratory comparison of ^{14}C measurement of tree-ring cellulose
16)-II (second term) International travel support for students (International presentation / Institutional stay)	Haruhiko Keino	Graduate School of Science and Engineering, Yamagata University	Research Stay at the French National Museum of Natural History to Investigate Soil Microbial Responses to Geomagnetic Environments