



National Research

**Tomsk  
State  
University**



*SUMMER*

AT THE OLDEST  
TRANS-SIBERIAN  
UNIVERSITY

Tomsk State University, a leading research university in Russia, invites international BA, MA and PhD students and professors to its summer schools

## Visit one of the most prestigious universities in Siberia!

[en.tsu.ru](http://en.tsu.ru)



**Annually from June to September National Research Tomsk State University, a fully comprehensive institution (est. 1878, 5 Nobel Prize winners, 3 Prime Ministers), offers summer schools in different subjects: from intensive language training in Russian to different skills level training in the field of biology and physics.**

- Tomsk is situated in Western Siberia at the very geographical center of Eurasia: an ideal meeting point for analytical minds! Tomsk is one of the oldest towns in Siberia. Tomsk celebrated its 410th anniversary in 2014. There are many beautiful ancient wooden buildings there. With a population of half a million, Tomsk is a city of students: 100,000 students (every fifth citizen) in 6 universities.
- On 28 May 1878 Emperor Alexander II signed a decree on the establishment of the first and only higher education institution in the vast expanses from the Russian Urals to the Pacific Ocean – the Siberian Imperial University in Tomsk. The classical comprehensive university comprises research and pedagogical schools, with a predominant share of fundamental research in all fields of science.



TSU has climbed over 100 positions and reached 277th position in QS Rankings 2018!



19th position in QS BRICS (4th position among Russian universities)



13th position in QS: Emerging Europe and Central Asia

- By presidential decree, Tomsk State University is included in the State list of the most valuable objects of cultural heritage of the Russian Federation.
- Old and new traditions go hand in hand in TSU. However, the main mission of the university has remained the same since the time of its foundation: to be a classical educational university of research renowned for its education system that builds the academic process on the latest research results and enhances personal growth in the cultural and intellectual development.



## TSU SUMMER SCHOOLS

- Summer School of Intensive Russian
- Cross-cultural Communication in Interpreting and Translation
- The Heritage of Eurasia: Past, Present and Future (arts and culture in Siberia)
- IV International Field Workshop "Mesozoic and Cenozoic Paleobiogeocenoses of the Northern Hemisphere"

**Each participant of the Summer School enjoys individual guidance for easier adaptation in the new environment**

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IV International  
Field Workshop

# Mesozoic and Cenozoic paleobiogeocenoses of the Northern hemisphere

**Dates:** Module 1: July 7–31  
(the field period is 21 days)

Module 2: August 11–31  
(the field period is 16 days)

**Languages:** Russian and English

**Target Group:** students, postgraduates, and their scientific advisors, researchers (the total number of participants is up to 20 for each module).

**Application Deadline:**

May 20, 2019 (Module 1)

June 17, 2019 (Module 2)

**Topic:** Paleontological, stratigraphic, and paleogeographic methods of field research.

**Organizer:** Faculty of Geology and Geography of Tomsk State University (GGF TSU).

**Brief description of the school:**

The field workshop will be held during the expedition of the Laboratory of Mesozoic and

Cenozoic continental ecosystems (TSU, Faculty of Geology and Geography). The Laboratory is implementing interdisciplinary research of Mesozoic and Cenozoic biogeocenoses, abiotic and biotic relationships, and problems of extinction and survival of organisms. The field works will be carried out on paleontological and geoarcheological sites, natural and artificial geological sections. There will be lectures and practical training in excavation methods and basic principles of taphonomic and paleoecological analyses, stratigraphic and paleogeographic research.



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## The field workshop will consist of two local modules:

1. South of the West Siberian Plain (forest-steppe zone) – the terminal lake basin of the Baraba lowland (Novosibirsk Province; 500-700 km away from Tomsk). The territory includes the paleontological and geoarchaeological site Volchia Griva, Pleistocene-Holocene geological sections and other research objects.

The site of Volchia Griva is one of the largest mammoth fauna site in Asia comprising Paleolithic artifacts. The concentration of bones and teeth buried in situ reaches 130 per m<sup>2</sup>. The locality represents the southernmost mammoth refugium of Eurasia. It was formed in the period from 20, 000 to 10, 000 years ago on the beast solonchaks, and its genesis is associated with mineral starvation of animals.

Geological sections will be examined along the banks of the river Om and Lake Chany – the largest in Western Siberia with an area of ~ 2000 km<sup>2</sup>. These deposits contain mammoth fauna, mollusks, plant and other residues aged from more than 50, 000 to 6, 000 years.

2. Southeast of the West Siberian Plain (the zone of taiga) – the Chulyum River basin (Krasnoyarsk Territory; 400-600 km away from Tomsk). The area of research includes dinosaur and mammoth fauna sites, Mesozoic and Pleistocene geological sections, and other objects of research. Localities of dinosaur fauna (Bolshoy Ilek, Berezovaya Rechka, Bolshoy Kemchug, etc.) comprise mass remains of the Early Cretaceous continental vertebrates (fish, lizards, turtles, crocodiles, dinosaurs, mammals). Many of them are new taxa, first described in this area. The preliminary age of the sites is the Barremian – Early Albian, the enclosing sediments are genetically related to the delta complex.

Localities of the mammoth fauna (Bolshoy Ilek, Krasnaya Rechka) include bone layers with remains of the Late Pleistocene mammals aged between 40,000 and 10,000 years. Associated Paleolithic artifacts are found on separate levels. The genesis of localities is subaerial, lacustrine, and alluvial. Geological sections of the Jurassic, Cretaceous and Pleistocene – Holocene will be studied mostly along the banks of the Chulyum River (large right tributary of the Ob River) and its tributaries. These deposits contain dinosaur and mammoth fauna, plant and other fossil remains. Within Module 2, participants have an option by prior arrangement to be organized in a separate group for a multi-day rafting route in inflatable boats and kayaks.





**The main objective is to develop** joint scientific research and academic mobility, demonstrate advantages of the complex approach in the study of natural objects, involve students in research work.

The schedule is flexible. The participants may join both first and second modules after the beginning and before the end of it. In that case the price of the personal transfer is the responsibility of a participant (it is paid additionally).

The work of the field workshop will be organized in the autonomous conditions of the field camps in forest-steppe and taiga areas. This involves the use of a field bath and cooking by all school participants in turn (without professional cooks).

Participation in the field school-workshop also includes

excursions in Tomsk, compulsory safety instructions, purchase of products, preparation of field equipment (3 days before and 1-2 days after the fieldtrip).

**Cell phone service:** Stable (several mobile phone service providers) in both modules.

During the river trip (module 2) it is stable at the beginning and at the end of the route. The satellite will be available for an extra fee by prior arrangement (on-demand during the registration).

**Necessary requirements:** medical insurance.

**Preferable vaccinations:** tick-borne encephalitis.

**Duration of academic activity**

Module 1 – 132 academic hours,  
Module 2 – 100 academic hours.

### Expenses (in euros) for participation in the International Field Workshop\*

Module	Meals in the field per day <sup>1</sup>	Transport <sup>2</sup>		Equipment <sup>3</sup>	Total
		transfers	in the field		
1	15	50	55	50	470
2	15	50	70	50	410

<sup>1</sup> Meals in Tomsk (before and after the field period) are paid by a participant. The average cost of 3 meals in a café of the economy class is €10–20 a day.

<sup>2</sup> Calculated for the whole period (transfer from Bogashevo airport and transfer to the field workshop area and back). Transport expenses from the country of residence to Tomsk and back are paid by participants.

<sup>3</sup> Calculated for the whole period. You can rent the following equipment items: a sleeping bag and its liner, a mat, a tent, cooking utensils etc. The participants are expected to have warm

and light expeditionary clothing, hats and shoes, backpacks, personal cleansing including toothbrushes, toothpaste, shampoo, swimwear, towels etc.

\* Calculation does not include accommodation costs in Tomsk. TSU provides accommodation in the student campus before and after the field period (€15 for the whole period in a room for two-three persons).

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