

2024 Call Research Grants for Young Scientists
Ranking Lists in accordance with the scientific fields

1. Natural Sciences

#	Project ID	Proposal title	Host institution	Final Score
1	YS-24-839	Diversity, bioindication and biomonitoring of soil microarthropods on subalpine and alpine pastures of Eastern Georgia	Agricultural University of Georgia	24
2	YS-24-3272	Novel secure and efficient post-quantum digital signature scheme with integrated random number generator	Caucasus University	24
3	YS-24-148	Investigation of the quasi-static problems of the coupled linear theory of elasticity for nanomaterials with triple porosity	Ilia State University	24
4	YS-24-088	Short term variability in the activity of the Sun and solar type stars	Ilia State University	24
5	YS-24-758	What do magnetised jets tell us about the large-scale magnetisation of the Universe?	Ilia State University	23
6	YS-24-698	Isolation and characterization of bacteriophages against emerging antibiotic-resistant <i>Stenotrophomonas maltophilia</i>	G. Eliava Institute of Bacteriophages, Microbiology and Virology	23
7	YS-24-836	Study of Resistive Wall Impedance and Wakefields for Novel Undulator Structures	LEPL-Kutaisi International University	22
8	YS-24-052	Integration and Calibration of the KM3NeT Detection Units, and Data Analysis at the Initial Stage of KM3NeT Neutrino Experiment	Ivane Javakhishvili Tbilisi State University	22
9	YS-24-1033	Agonist-Evoked Activation of Thermo-TRP Channels	LEPL IVANE BERITASHVILI CENTER OF EXPERIMENTAL BIOMEDICINE	22
10	YS-24-2725	Sets, Relations, Computability	Ivane Javakhishvili Tbilisi State University	22
11	YS-24-1970	Studies of radiation influence on Resistive Plate Chambers for the CMS experiment operated on an ecological friendly gas mixture for the LHC High Luminosity Update	Georgian Technical University	22
12	YS-24-2817	Digital Solution for Breast Cancer Diagnosis: Developing a Complex Classification Model using Digital Pathology and Machine Learning	Ivane Javakhishvili Tbilisi State University	22
13	YS-24-3262	An improved QPA method for molecular diagnostics	Ilia State University	21
14	YS-24-1132	Provenance of the detrital material in the Devonian-Triassic flysch of the Svaneti Anticlinorium: implications for the tectonic evolution and regional correlation	Ivane Javakhishvili Tbilisi State University	20
15	YS-24-1999	Study of the dynamics of some meteorological parameters on the background of the course of dangerous weather events on the territory of Georgia.	Ivane Javakhishvili Tbilisi State University	20
16	YS-24-121	The analysis of the time distribution of the intervals between earthquakes/Using the deformation data of the Enguri Arch Dam	Ivane Javakhishvili Tbilisi State University	20
17	YS-24-037	Structural survey and assessment of geodynamic processes for the Jinvali water reservoir and adjacent territory	Ivane Javakhishvili Tbilisi State University	20
18	YS-24-139	The geometry and kinematic evolution of frontal part of Eastern Greater Caucasus, Georgia	Ivane Javakhishvili Tbilisi State University	20
19	YS-24-913	Integrating Logic and Machine Learning: Enhancement in Health Diagnostics	Ivane Javakhishvili Tbilisi State University	20
20	YS-24-1792	Study of ecological parameters of Lake Paliastomi by digital model processing	ECOCENTER FOR ENVIRONMENTAL PROTECTION	19
21	YS-24-774	Development of innovative technologies for the valorization of grape wine processing waste to reduce the negative impact on the environment using the principles of a circular economy	Batumi Shota Rustaveli State University	19
22	YS-24-208	Development of composites reinforced with carbon fibers and synthetic polymer for blast-resistant application	LEPL G.Tsulukidze Mining Institute	19
23	YS-24-1425	Elaboration of high energetic industrial explosives on the base of utilized gunpowder and investigation of their characteristics	LEPL G.Tsulukidze Mining Institute	18
24	YS-24-4584	Biological activity of bacteria and their viruses under different environmental conditions and stress-induced changes	Ivane Javakhishvili Tbilisi State University	18
25	YS-24-2118	Phenotypic variation in <i>Apodemus</i> mice species along climatic and altitudinal gradients	Ilia State University	17
26	YS-24-821	The effect of altitude on soil properties and leaf traits of <i>Rhododendron caucasicum</i> Pall. (Kazbegi region, the Central Great Caucasus)	Ilia State University	17
27	YS-24-948	Investigation Of Complex Formation Processes Of Cr(III), Mn(II) And Fe(III) With Fulvic Acids Isolated From Natural Waters By The Solubility And Gel Chromatographic Methods	Ivane Javakhishvili Tbilisi State University	17
28	YS-24-1472	Vector bundles and free form accessory parameter Fuchsian systems on Riemann sphere	Ivane Javakhishvili Tbilisi State University	16
29	YS-24-2798	Exploring microscopic Fungi-Derived Biologically Active Compounds as Potential Anticancer Agents	Georgian Technical University	16
30	YS-24-917	Study of endemic plants of Adjara and Adjara-Lazeti on the content of secondary metabolites - terpenoids and determination of antibacterial activity	Batumi Shota Rustaveli State University	15
31	YS-24-484	Bacteriophages as a Potential Tools for Biocontrol of <i>Listeria monocytogenes</i> in Food Products	G. Eliava Institute of Bacteriophages, Microbiology and Virology	15
32	YS-24-648	Development of innovative technology for creating underground artificial reserves of fresh water for water supply in the arid zone of Georgia	Georgian Technical University	14
33	YS-24-825	Convergence of Fejer means and T means in Hardy spaces	The University of Georgia	13
34	YS-24-1382	Study of biologically active substances in fruits and leaves of currant (<i>Ribes L.</i>) species common in Adjara-Guria, their sustainable use using elements of cyclic economy and valorization	Batumi Shota Rustaveli State University	13
35	YS-24-548	Risk assessment of Bolnisi municipality ecosystems' heavy metal pollution and soil bioremediation	Georgian Technical University	13
36	YS-24-2583	Study of pollutant substances in medicinal herbs of Georgia	Ivane Javakhishvili Tbilisi State University	12
37	YS-24-044	Models of Neutrino Mass Generation and Leptogenesis	Ilia State University	8

2. Engineering and Technology

#	Project	Proposal title	Host institution	Final Score
1	YS-24-783	Spectrally tunable cholesteric liquid crystal laser for the real-time monitoring of environmental pollution	Georgian Technical University	27
2	YS-24-973	Study of Doping and Activation Processes in GaN.	Micro and Nanoelectronics Institute	25
3	YS-24-1209	Development of the technology for obtaining high strength bainitic cast iron microalloyed with FeB and Mo.	Ferdinand Tavadze Institute of Metallurgy and Materials Science	24
4	YS-24-1927	Synthesis and study of copper and zinc-based binary and ternary oxide semiconductor nanomaterials	Georgian Technical University	23
5	YS-24-058	Targeted Inhibition of Cancer Cells Proliferation in the LOX-IMVI Human Melanoma Cell Line Using Fluorescent Dye-Sensitized Titanium Dioxide Nanoparticles	Georgian Technical University	21
6	YS-24-3236	Development of probiotic apple juice technology based on stability of freeze-dried endemic starter culture	Agricultural University of Georgia	19

7	YS-24-867	Development of rational technology of gold-bearing ores based on statistical modeling	LEPL G.Tsulukidze Mining Institute	19
8	YS-24-519	Obtaining new composite hard materials and researching their properties.	Georgian Technical University	19
9	YS-24-3708	Securing IoT Ecosystem Using Zero-Trust Architecture in 5G and Beyond Networks	Caucasus University	18
10	YS-24-1690	Safety control of mountain landscape infrastructure by innovative engineering measures	ECOCENTER FOR ENVIRONMENTAL PROTECTION	17
11	YS-24-978	Research and improvement of modern methods of numerical solution of problems of dynamic loading of solid bodies by shock waves	LEPL G.Tsulukidze Mining Institute	15

3. Medical and Health Sciences

#	Project ID	Proposal title	Host institution	Final Score
1	YS-24-4131	Analysis of SOD1 gene in patients with Amyotrophic Lateral Sclerosis in Georgia	Tbilisi State Medical University	25
2	YS-24-194	Short- and long-term effects of chronic toluene exposure on behavior, neuroanatomy and porosome complex in adolescent and adult rats	LEPL IVANE BERITASHVILI CENTER OF EXPERIMENTAL BIOMEDICINE	24
3	YS-24-159	Study of the chemical and antioxidant activity of Tragopogon tuberosus K.Koch of Georgian flora	Tbilisi State Medical University	21
4	YS-24-348	Neuroinflammation induced cognitive impairments	LEPL IVANE BERITASHVILI CENTER OF EXPERIMENTAL BIOMEDICINE	20
5	YS-24-4945	Biomechanical evaluation of absorbable polymeric thread materials	Tbilisi State Medical University	20
6	YS-24-705	Evaluation of the impact of interdisciplinary team work on the oral health of patients with autism spectrum disorder	The University of Georgia	19
7	YS-24-1698	Assessing Alcohol Expectations and Beliefs in Students	Ivane Javakhishvili Tbilisi State University	19
8	YS-24-2305	Familial cross infections and their significance in cystic fibrosis	P.Shotadze Tbilisi Medical Academy	18
9	YS-24-4466	Hyaluronic Acid Encapsulated PEA Nanoparticles to Improve Drug Delivery System for Musculoskeletal Diseases	Tbilisi State Medical University	17
10	YS-24-3221	Human Papillomavirus Infection and Genetic Variants in Breast Cancer Susceptibility	P.Shotadze Tbilisi Medical Academy	16
11	YS-24-3722	Global Perspectives: Advancing Bioethics Education in Georgia	Georgian American University (GAU)	15
12	YS-24-264	Chemical and biological standardization, as well as evaluation, of the antibacterial efficacy of essential oils derived from Pinaceae species native to Georgia against bacteria associated with infectious endocarditis	Tbilisi State Medical University	14

4. Agricultural Sciences

#	Project ID	Proposal title	Host institution	Final Score
1	YS-24-174	Epidemiology and Characterization of Arcobacter spp. and Campylobacter spp. isolated from Georgian beef and pork	Agricultural University of Georgia	22
2	YS-24-106	Identification and Genomic Analysis of Aggressive Alternaria Species Affecting Economically Significant Crops Through Cutting-Edge Technologies.	Batumi Shota Rustaveli State University	21
3	YS-24-2579	Creating a predictable model of natural restoration for subalpine birch forest	Scientific-Research Centre of Agriculture	20
4	YS-24-409	Investigation of ampelographic and oenological characteristics of the clonal variations for Georgian local grape varieties Saperavi and Rkatsiteli	Caucasus International University	17
5	YS-24-481	Exploring the Potential of Red Fruits as Raw Materials for Crafting Low and Non-Alcohol Fermented Beverages	Georgian Technical University	15
6	YS-24-3087	Using of Innovation Methods for Protection Reclamation Objects from Floods (on the example of Dusheti Municipality)	ECOCENTER FOR ENVIRONMENTAL PROTECTION	14
7	YS-24-1538	Identification of honey bee diseases in Georgia	Agricultural University of Georgia	14
8	YS-24-545	Identification of rare and economically promising apple and pear varieties common in West Georgia, study of the chemical characteristics of the fruit and its conservation	Batumi Shota Rustaveli State University	14

5. Social Sciences

#	Project ID	Proposal title	Host institution	Final Score
1	YS-24-2206	Predicting Attitudes towards Global Events Cross-nationally: The Role of Belief in Conspiracy Theories, Ideological and Personal Orientations	Ilia State University	26
2	YS-24-053	Far-right Movements' Political Messaging and protest strategies in the EU Candidate States: A Comparative Analysis of Georgia and Serbia	Ivane Javakhishvili Tbilisi State University	25
3	YS-24-924	Attitudes towards Georgia's EU membership during the last years: Supporters and opponents, reasons for support and opposition	Ilia State University	25
4	YS-24-1282	Self-perception of journalistic roles and functions in and for democratization: The case of Georgia	Center for Social Sciences	24
5	YS-24-4818	Exploring Language Phenotypes in Children with Autism Spectrum Disorder and Developmental Language Disorder: A Mixed-Methods Approach for Empirical Evidence through Systematic Review and Controlled Observation	Ivane Javakhishvili Tbilisi State University	24
6	YS-24-308	Regional development with improved spatial-territorial planning and opportunities for efficient use of land in the context of sustainable economic development (on the example of Georgia)	Ivane Javakhishvili Tbilisi State University	23
7	YS-24-4568	Gender study on the relationship between STEM education choices and future career perspectives (Empirical study from higher education institutions in Georgia using structural equation model).	East European University	22
8	YS-24-1655	Effect of COVID-19 on the Main Macroeconomic Indicators: Post Pandemic Economic Policy Response Analysis	Ilia State University	22
9	YS-24-2273	Does Heavy Social Media Consumption Compromise the Moral Self? Insights into Generation Z's Struggles.	Ivane Javakhishvili Tbilisi State University	22
10	YS-24-689	Archives and oral histories of higher education in Georgia	Ilia State University	21
11	YS-24-1777	Parliamentary Control Mechanisms Within the Framework of Recent Constitutional Amendments	European University Institute of Law	21
12	YS-24-2424	Unveiling Creativity: Gender Stereotypes and Their Impact on Creative Expression	Ivane Javakhishvili Tbilisi State University	21
13	YS-24-3256	Exploring the Psychological Determinants of Student Attrition in Higher Education: A Mixed-Methods Approach	Ivane Javakhishvili Tbilisi State University	21
14	YS-24-1002	Development and analysis of the system of statistical indicators concerning the usage of information and communication technologies in Georgian households	Ivane Javakhishvili Tbilisi State University	20

15	YS-24-930	Economic and Security Intersections: Exploring Georgia's Strategic Position in the Context of EU Integration and Foreign Direct Investment	David Aghmashenebeli National Defence Academy of Georgia	19
16	YS-24-084	Assessing the Role of Technology in Combating Corruption: A Comparative Study of the United States and Georgia	The University of Georgia	19
17	YS-24-265	Attitude of subject teachers towards students with special educational needs	Ltd Georgian International University Giu	18
18	YS-24-728	The ways to Improve Municipal Financial Management in Georgia	Georgian Technical University	18
19	YS-24-426	Fostering a Culture of Lifelong Learning in Individuals, Higher Educational Institutions and Organizations to Adapt to Rapidly Evolving Job Markets – The Case of Georgia	Business and Technology University	18
20	YS-24-629	Overprotection Parenting style, empathy, and personal anxiety in substance-dependent individuals	Ilia State University	18
21	YS-24-166	Paradigms of Georgia-Abkhazian Relations: Past and the Future	Ilia State University	17
22	YS-24-922	Mental Health Issues in Georgian Academic Space	Sulkhan-Saba Orbeliani University	17
23	YS-24-577	Implication of Technological Talents' Mental Health Regarding Performance of Companies and the Industry	Business and Technology University	15
24	YS-24-115	Extra Judicial Mechanisms of Labour Disputes Resolution in terms of Efficient Defence of the Legitimate Interests of Disputing Parties (Georgian Legal Framework through the Prisms of German Experience and Common European Standards)	International Black Sea University, LLC	12
25	YS-24-767	Religious conflicts in Georgia and preventive measures	David Aghmashenebeli National Defence Academy of Georgia	12
26	YS-24-2801	Artificial Intelligence Tools to Promote Adolescent Academic Achievement - Balancing Parental Involvement and Socio-Economic Conditions	Georgian national university SEU	12

6. Humanities

#	Project ID	Proposal title	Host institution	Final Score
1	YS-24-3935	Glass types in Colchian culture during the Late Bronze-Early Iron ages (According to Ergeta Cemeteries)	The Georgian National Museum	27
2	YS-24-111	Changes in the Material Culture of West Transcaucasia During the 1st Millennium BC: according to items made of precious metal from Brili Cemetery	The Georgian National Museum	26
3	YS-24-2448	Depiction of Consciousness in Georgian Autobiographical Texts: A Digital Narratological Analysis for Pattern Detection	Ivane Javakhishvili Tbilisi State University	26
4	YS-24-312	Gaslighting and micromachism in Georgian academic and digital political mediadiscourse.	Ivane Javakhishvili Tbilisi State University	25
5	YS-24-4486	Morphosyntactic models of the Laz verbs	Ivane Javakhishvili Tbilisi State University	25
6	YS-24-546	Metaphors in Georgian Political Discourse: An Anthropolinguistic Analysis	Akaki Tsereteli State University	24
7	YS-24-496	Gelatian Translation of St. Maximus the Confessor's Dogmatic-Polemical Treatises (K14)	Akaki Tsereteli State University	23
8	YS-24-3306	"Archival Materials of Megrelian (1910-1930)"	Ivane Javakhishvili Tbilisi State University	22
9	YS-24-1215	Great Lenten Cycle in New Iadgari	Akaki Tsereteli State University	22
10	YS-24-599	New Mythology and Georgian Symbolism in European Context	Ivane Javakhishvili Tbilisi State University	22
11	YS-24-1289	An Annotated Parallel Digital Edition of the Gospel of Mark	Ilia State University	22
12	YS-24-2212	An unknown collection of Iranian metal of the 18th-19th centuries in the National Museum of Georgia	The Georgian National Museum	22
13	YS-24-3007	Textual research and historical-cultural analysis of Ivane Machabeli's Journalistic Articles	Giorgi Leonidze State Museum of Georgian Literature	21
14	YS-24-828	Role of auto-fictional and autobiographic feminine narrative in creation of 20th century Georgian cultural and collective memory	Ilia State University	21
15	YS-24-1560	Issues of Cultural Diversity and Policy of Ethnoculture (on the example of the collections of Niko Berdzenishvili Kutaisi State Historical Museum)	Kutaisi State N. Berdzenishvili Historical Museum	21
16	YS-24-1666	Narratives of the Future in Modern Georgian Fiction Literature	Ivane Javakhishvili Tbilisi State University	20
17	YS-24-085	Interdisciplinary Research of the Urbnisi Cemeteries: socio-economic and ethno-cultural aspects	The Georgian National Museum	20
18	YS-24-1324	Friedrich Nietzsche's Philosophical Poetry	Ivane Javakhishvili Tbilisi State University	20
19	YS-24-154	Ambrose of Nekres - "The Book of Cards" (H-1334): textological, codicological and source knowledge analysis.	Korneli Kekelidze Georgian National Centre of Manuscripts	19
20	YS-24-1822	Linguoculturological Analysis of Turkish and Azerbaijani Translations of "The Knight in the Panther's Skin"	Batumi Shota Rustaveli State University	19
21	YS-24-120	Zodiac signs depicted in Georgian and foreign manuscripts of the middle ages	Korneli Kekelidze Georgian National Centre of Manuscripts	17
22	YS-24-502	The role of mediation in artistic conflict and determining the place of Georgian writing in world literary space in this regard	Ivane Javakhishvili Tbilisi State University	16
23	YS-24-2268	Transference of Aphorisms from "The Knight in the Panther's Skin" in Russian Translations: A Comparative Analysis	Batumi Shota Rustaveli State University	14

7.Georgian Studies

#	Project ID	Proposal title	Host institution	Final Score
1	YS-24-173	"Sacrificing a Memory: Memorialization of the Caucasian War (1817-1864) in the De facto State of Abkhazia"	Ivane Javakhishvili Tbilisi State University	26
2	YS-24-261	Georgian Literary Criticism from 1870 to 1900 (Methodologies and Practices, in the Context of the European Critical Thinking)	Ivane Javakhishvili Tbilisi State University	25
3	YS-24-089	Homebound Horizons: Exploring the Journey of Return Migration to Georgia, Assessing Reintegration Experiences, Economic Contributions, and Motivations Behind the Return	Ilia State University	25
4	YS-24-186	Mesolithic hunters from Kintrishi gorge (Interdisciplinary studies)	Batumi Shota Rustaveli State University	25
5	YS-24-278	The role of Georgian endemic species of wheat in the inception and development of agriculture and their identification by the innovative method of phytolith research (Neolithic settlements of Kvemo Kartli)	The Georgian National Museum	24
6	YS-24-919	Immigration context, adaptation and wellbeing of Georgian Immigrants	Ilia State University	24
7	YS-24-1419	Facilitating the introduction of experiential tourism elements in Georgia to develop a market-oriented agritourism product	Ilia State University	22
8	YS-24-2036	Radon research in underground waters and karst caves in Vardzia territory	Ivane Javakhishvili Tbilisi State University	22
9	YS-24-2556	Comparative Analysis of Georgia and Eastern European States	Batumi Shota Rustaveli State University	20

10	YS-24-1501	Renovation of the Tradition of Icon Painting in Modern Georgian Art - Perspectives and Challenges	Apollon Kutateladze Tbilisi State Academy of Art	18
11	YS-24-132	Complex research/analysis of Kutaisi urban area and creation of digital atlas using GIS technology	Akaki Tsereteli State University	18
12	YS-24-071	References of al-Baladhuri about Georgia (comparative study)	Ivane Javakhishvili Tbilisi State University	14