

proposal no.	Institute	Principal Researcher	Discipline	Sub-discipline	Subject	Summary	Extent (years)	Budget (thousands of NIS)
1823	Tel Aviv University	Marcelo Sternberg	Climate change	Preparation for climate change	Effect of drought and rainfall changes on natural systems	Research to study the effects of climate change (mainly precipitation) on the natural vegetation system, by using cover to prevent natural rainfall, and production of "artificial rain". This study can lead to important applied results on climate change. The proposal is based on established research that produced significant results to understand the ecology of open spaces in Israel in the context of climate change.	3	350

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1836	Tel Hai College	Nir Becker	Ornithology	Cranes in Lake Agmon	Cost benefit analysis of cranes in the Hula Valley	Research focusing on long-term management of cranes. This type of management can be implemented only on a suitable economic foundation, which will be evaluated in the study to help decision-makers establish this type of management. Current management is based on economic decisions made by a number of agencies that change from year to year. The study will allow KKL-JNF to make rational decisions regarding crane management in the Hula Valley in light of the growing number of wintering cranes in the valley, which contribute to tourism at Lake Agmon and in the Upper Galilee, but also increase damage to agriculture in the region.	1	130

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1848	Desert and Dead Sea R&D	Tareq Abu Hamed	Climate change	Reducing emissions - renewable energy	Applicability and economic and environmental benefits of renewable energy storage solutions	Research to compare different methods of renewable energy storage, such as air pressure, saline solutions, heat storage and the like. Storing solar energy is a bottleneck in promoting the technology and this study will contribute to implementing different methods of renewable energy storage and to the selection of the most economically feasible method.	3	350

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1851	ARO/Volcani Center	Tarin Paz-Kagan	Climate change	Preparation for climate change	Monitoring and managing water balance in forests subject to climate change	Research to study the water balance in KKL-JNF forests by a combination of satellite sensing and in-situ measurements in the forest and the soil, in the context of preparations for climate change. The skills developed in this study will contribute significantly to water economy targeted forest management in a situation of increasing climate change and dryness, in order to implement them as a management tool in water-limited forests.	3	350

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1855	Hebrew University of Jerusalem/Faculty of Agriculture	José Grünzweig	Climate change	Estimating forest contribution to carbon sequestration	Contribution of afforestation to the climate crisis	Research very well suited to the call for proposals, as it focuses on reducing carbon emissions and attempts to quantify the optimal effect of KKL-JNF forests in this context. This effect will be measured by comparing carbon sequestration in the forest vs. open spaces. This original, innovative approach tackles a subject for which information is lacking.	3	350
1897	Haifa University	Maya Negev (Lev)	Forest and open spaces management	Cleaning forests	Characterization of factors underlying littering in forests and parks	This study will characterize behavioral and other factors relating to littering in KKL-JNF forests, by handing out questionnaires to visitors. The study will also evaluate factors that could reduce visitor littering, cause them to collect their litter and possibly take it with them. This applied research will allow	1	120

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						KKL-JNF to implement more effective litter management and reduce littering in forests.		
1900	Tel Hai College	Didi Kaplan	River rehabilitation	Rehabilitating riparian vegetation	Riparian vegetation rehabilitation – the Kishon River as a case study	Research on riparian vegetation rehabilitation following invasive plant eradication – a case study from Nahal Kishon. The study will contribute significantly to knowledge regarding riverside rehabilitation, particularly in the streams included in NOP 1 forest parks (formerly defined as riparian plantings in NOP 22).	3	340

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1901	Ben Gurion University	Uri Roll	Ornithology	Monitoring and citizen science	Using citizen science to monitor birds in KKL-JNF lands	Research focusing on advanced analysis of bird observations in areas managed by KKL-JNF, recorded by visitors, which can contribute to conclusions regarding the effect of visitors and management of the administered areas.	3	300
1920	Tel Aviv University	Frida Ben-Ami	Water bodies	Winter pools	Biodiversity in winter pools in summer	Research on the biodiversity of KKL-JNF winter pools. The study will evaluate the state of winter pools when they dry up in summer. It will allow KKL-JNF to manage winter pools under its authority more effectively, to improve the ecological situation in the pools, and possibly to allow the public to visit some of them.	3	350
1922	Haifa University	Tamar Trop	Water bodies	Water reservoirs and birdwatching	Model of water reservoirs for birdwatching	Research on the possibility of using KKL-JNF reservoirs as potential birdwatching sites. The study will help KKL-JNF plan	3	350

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						future use of reservoirs for birdwatching.		
1923	Ben Gurion University	Ofer Ovadia	Ornithology	Monitoring and citizen science	Study of factors affecting changes in the distribution of breeding birds	Research that focuses on monitoring birds in Israel using advanced scientific tools, including the existing ornithological database in Israel. The study will allow KKL-JNF to use citizen science as a reliable source for monitoring birds in sites administered by KKL-JNF.	3	160
1928	Tel Aviv University	Ram Fishman	Climate change	Reducing emissions - renewable energy	Economic analysis of agrivoltaics in Israel	Research to evaluate the feasibility of solar panel integration in Israeli agriculture (agrivoltaics). The study will allow KKL-JNF to explore the issue of preparing for climate change and reducing greenhouse gas emissions.	2	250



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1931	Hebrew University of Jerusalem	Ran Nathan	Ornithology	Cranes in Lake Agmon	Advanced research for optimal management of crane populations in the Hula Valley	Research on crane behavior in Lake Agmon, by studying their movements. This innovative study will evaluate methods reduce crane damage in the Hula Valley. The study will allow KKL-JNF to promote practical solutions for the crisis in the Hula Valley related to the growing numbers of wintering cranes and the increasing damage they cause to farmers.	3	350
1932	Haifa University	Alon Lotan	River rehabilitation	Watershed management	Integrating nature-based solutions to manage runoff in a river watershed	Research that proposes to develop a model of watershed management based on nature-based solutions in Nahal Yavne'el. The project will integrate the KKL-JNF element (forest and open spaces) into an existing model.	3	150

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1935	Shamir Research Institute	Elad Dante	River rehabilitation	Improving stream water quality	Land uses that pollute watersheds and rivers in the Golan Heights	Research focusing on spatial hydrological analysis to identify pollutants that affect water quality in streams and wetlands in the Golan Heights. The study will recommend management modifications to reduce water and wetland pollution resulting from cattle grazing; it will serve as a model to be applied in areas administered by KKL-JNF.	3	300
1940	ARO/Volcani Center	Tamir Kamai	Runoff management	Infiltrating urban runoff	Runoff collection and infiltration in a porous medium	Research to develop an application for infiltrating urban runoff in relevant KKL-JNF areas, such as the Lavan Ridge. The study will provide KKL-JNF with a practical tool that can be used in areas in which urban runoff flows into areas administered by KKL-JNF.	3	350

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1944	Ruppin College	Sarig Gafni	Water bodies	Winter pools	The dynamics of pollutants and their toxicity in winter pools	Research to identify organic and inorganic pollutants including heavy metals in KKL-JNF winter pools. The study will allow KKL-JNF to implement management that will reduce, and possibly eliminate pollution in the winter pools it administers.	2	250