



## MakerSpace scholarship process

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## VERSION

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1.0	30.06.2023	Christina Wiessner, Silvia Dell'Olio, Sven Bornhagen, Dr. Sylvia Pintarits	MUC, UTUM, MS	

## GLOSSARY

<b>EC</b>	European Commission
<b>EU</b>	European Union
<b>M</b>	Project Implementation Month
<b>NEB</b>	New European Bauhaus
<b>NEBourhoods</b>	Creating NEBourhoods Together
<b>NGO</b>	Non-governmental Organisation
<b>NPL</b>	Munich Neuperlach
<b>OA</b>	Open Access
<b>T</b>	Task
<b>WP</b>	Work Package
<b>Organisation Name (Consortium)</b>	
<b>MUC</b>	Landeshauptstadt München
<b>AGM</b>	Architekturgalerie München e.V.
<b>BYF</b>	Bayerische Forschungsallianz Bavarian Research Alliance GmbH
<b>GC</b>	Green City e.V.
<b>HM</b>	HM Hochschule München University of Applied Sciences
<b>MGS</b>	MGS Münchener Gesellschaft für Stadterneuerung GmbH
<b>SCE</b>	Strascheg Center For Entrepreneurship
<b>STR</b>	Str.ucture GmbH
<b>SAAD</b>	Studio Animal Aided Design GbR
<b>SSR</b>	Studio   Stadt   Region Forster Kurz Architekten und Stadtplaner Partg Mbb
<b>TUM</b>	Technische Universität München
<b>UTUM</b>	UnternehmerTUM GmbH
<b>MS</b>	UnternehmerTUM MakerSpace GmbH
<b>Organisation Name (in Cooperation with)</b>	
<b>MER</b>	Münchner Ernährungsrat e.V.
<b>MIN</b>	Münchner Initiative Nachhaltigkeit
<b>OTH</b>	Ostbayerische Technische Hochschule Regensburg
<b>Organisation Name (Associated Partners)</b>	
<b>ByAK</b>	Bayerische Architektenkammer, Körperschaft des öffentlichen Rechts
<b>BYD</b>	Bayern Design GmbH
<b>BDA</b>	Bund Deutscher Architektinnen und Architekten e.V.
<b>BDA-By</b>	Bund Deutscher Architektinnen und Architekten Bayern e.V.

## 1. INTRODUCTION

### 1.1 OBJECTIVE OF THE DELIVERABLE

This document is the deliverable D 3.3, “MakerSpace scholarship process” of the NEBourhoods project, funded under the European Union’s Horizon Europe Programme under grant agreement No. 101080052. The official grant agreement specifies the task as “T3.4 Documentation of the criteria and application process for the MS scholarships provided for 10 days is published on the NEBourhoods Website”. The deliverable serves as a comprehensive guide and overview of the MakerSpace scholarship process for the citizens of Neuperlach as part of the EU project "Creating NEBourhoods Together." The objective of this deliverable is to provide a clear understanding of the procedures, criteria, and opportunities available for individuals interested in applying for scholarships to access and utilize the MakerSpace facilities.

### 1.2 PROJECT OVERVIEW

“Creating NEBourhoods Together” is one of the six lighthouse demonstrators of the New European Bauhaus funded by the EU to address the great challenges of climate, environment, and health. The aim is to collaborate on the European Green deal to create more sustainable, inclusive, and beautiful living environments across the EU. In Munich-Neuperlach (NPL), one of Europe's largest post-war urban expansion areas, NEBourhoods is collaborating with citizens and stakeholders from culture, science, and business to implement ten actions from all fields of urban development, encompassing circular construction and redesign of residential and commercial buildings, innovative forms of mobility and energy communities, biodiversity and green space concepts and nutrition and youth culture. Encouragement of entrepreneurial thinking and action and practical implementation in co-creative processes support the formation of sustainable neighborhoods in liveable, inclusive, and beautiful cities of the future. “If the European Green Deal has a soul, then it is the New European Bauhaus, which has led to an explosion of creativity across our Union.” – Ursula von der Leyen, President of the European Commission.

Combining co-creation and entrepreneurship while putting culture and creativity at the core of the transformation process, the project will deliver accessible and empowering solutions to make the EU Green Deal beneficial for all in NPL and beyond. The district will be carefully cultivated into a resilient urban innovation landscape. Within two years, we will create

NEBourhoods together and show how we can realize circular thinking and acting in society and the economy, activate the green transformation in building, mobility, energy, food and health and enhance public spaces.

## 2. MAKERSPACE OVERVIEW

### 2.1 MAKERSPACE FACILITIES

UnternehmerTUM MakerSpace GmbH (subsidiary of UnternehmerTUM GmbH) provides a unique infrastructure for implementing ideas and innovations in the form of prototypes and small-scale production. With two locations spanning an area of 1,500 m<sup>2</sup> in Garching (TUM Campus) and 1,200 m<sup>2</sup> in central Munich (Munich Urban Colab), the high-tech workshop is open to the public and gives start-ups, engineers, architects, designers, and makers access to machinery, tools, and software, as well as to a creative community (see Figure 1). This open membership-based workshop concept, which is the first of its kind in Europe in this size, was brought into being at the UnternehmerTUM Entrepreneurship Center in Garching and in the Munich city center, in cooperation with the BMW Group.



*Figure 1: Work area MakerSpace workshop in Garching; source: MakerSpace*

The workshops offer a variety of work areas, such as machining, metal-working, and woodworking shops, as well as textile and electrical processing. Various tools such as 3D printers, laser cutters, and waterjet cutters are available for creating diverse designs using different materials. To assist and connect individuals, the MakerSpace team offers training

and consulting services for its members of all proficiency levels. Start-ups like ProGlove (<https://proglove.com/de/>), GargoKite (<https://cargokite.com/>), Air Up (<https://de.air-up.com/>), and Inveox (<https://inveox.com/en/>) have developed, tested, and further enhanced their products in the MakerSpace workshops.

## 2.2 STANDARD MAKERSPACE SCHOLARSHIP

Alongside its diverse membership options (<https://maker-space.de/membership/>), the MakerSpace provides a variety of scholarships for students, artists, and makers to continuously foster innovation (<https://maker-space.de/stipendium/>). These individuals have the opportunity to apply online with a feasible idea for the workshops and can receive free access to the workshops for a specific period of time to develop, refine, and test their ideas.

The scholarships are designed to support talents and creative individuals who want to unleash their potential. By gaining free access to the workshops, they get the opportunity to bring their ideas to life, enhance their skills in areas such as design, craftsmanship, and technological innovation and get access to an innovative community of students, companies, and start-ups. Scholarship recipients get support, guidance, and technical assistance from the MakerSpace experts helping them refine their ideas and transform them into prototypes or products.

The aim of these scholarships is to provide interested people with the resources and space to fully tap into their creativity and innovative spirit. By having access to high-quality tools, machinery, and materials, they can advance their ideas and further develop their skills.

Through the promotion of innovation and the provision of support to talented individuals, the MakerSpace plays a vital role in cultivating a dynamic and imaginative community. The results of these efforts can contribute to the development of new solutions, products, and services that have the potential to positively impact society. Chapter 4 describes the specific scholarship offered by NEBourhoods.

### 3. MOBILE MAKERSPACE IN NEUPERLACH

With the mobile MakerSpace as part of the NEBourhoods project, we open up the world of creation and the start-up world to all interested people in Neuperlach and support and foster their entrepreneurial spirit and activities. In line with the New European Bauhaus, we inspire citizens to positively transform and co-create their neighbourhood with their projects and business ideas.

Since the beginning of May, the container has been located at Theodor-Heuss-Platz in the center of the “Adenauer Wohnring” (Adenauer housing ring), 81737 Neuperlach and is expected to be available to citizens until the end of 2024 (see Figure 2). The mobile MakerSpace is a converted container equipped with tools and workspaces (see Figure 3). It invites residents and employees of local companies to get inspired, be creative and bring their ideas to life.



*Figure 2: Official opening ceremony of the Mobile MakerSpace in Neuperlach; source: NEBourhoods*



*Figure 3: Mobile MakerSpace workshop; source: MakerSpace*

The workshop is equipped with metal and wood processing tools, 3D printers, and a laser cutter. A MakerSpace staff member engages with interested visitors, demonstrating the use of 3D printers and laser cutters, and also assisting in the production of prototypes and initial products.

The use of the mobile MakerSpace in Neuperlach is free for anyone interested. The container is regularly open by a MakerSpace staff member on Saturdays from 2-6 pm during the summer months. In the presence and coordination of the staff member, interested individuals have the opportunity to use the machines. In addition to regular opening hours, guided events will be organized to specifically introduce groups from Neuperlach to the opportunities of the container and the scholarships (see next section).

## 4. NEBOURHOODS SCHOLARSHIPS

As part of the NEBourhoods project, 50 scholarships are being awarded to community members in Neuperlach in addition to already existing scholarships, e.g., for students. The objective of the scholarships is to motivate and create awareness among interested individuals, regardless of their student status, to embrace entrepreneurship and actively contribute to the ongoing development of their neighborhood. These scholarships provide recipients with access to the MakerSpace workshops at Munich Urban Colab and Garching, along with two machine courses. The ultimate goal is to empower individuals with the necessary skills and resources to utilize the MakerSpace machines effectively for prototyping purposes.

### 4.1 SCHOLARSHIP TARGET GROUP AND COMMUNICATION STRATEGY

With the scholarship option for the NEBourhoods project, a new target group is being addressed for the MakerSpace workshops. The project area (action area / Handlungsraum) Neuperlach has approximately 65,000 residents, of which about 60 % have foreign roots or foreign citizenship. The unemployment rate, at 5.9 %, is significantly higher than in other districts of the state capital Munich. Also, the share of young and older individuals is comparatively higher than city average. A smaller share of pupils than average reaches higher educational levels.

Since we are targeting new audience groups with the NEBourhoods scholarships, we have created a broad communication strategy to reach the different target groups we hope to attract. The focus will be on the mobile MakerSpace as a teaser for the scholarships. The high visibility of the mobile MakerSpace at Theodor-Heuss-Platz and the proximity of ZAK (see Cooperation with key stakeholders) will help to reach many people. As the topics of entrepreneurship and prototyping may be challenging to grasp for individuals less connected to the academic and creative economy world, as we find in Neuperlach, the small workshop

container will serve as an initial introduction to what can be done in the larger workshops and what creating prototypes entails. By specifically inviting Neuperlach groups such as school classes, dance groups, sports clubs, and elderly people groups to participate in workshops at the mobile MakerSpace, different target groups can be inspired with the topic of entrepreneurship in the context of NEB and informed about the opportunities of the NEBourhoods scholarships.

Information about the NEBourhoods scholarships will also be displayed at the mobile MakerSpace when it is closed, as well as in other facilities and public spaces.

- **Collaboration with key stakeholders - shaere**

In order to gain access to the community we are collaborating with key stakeholders in Neuperlach – directly as well as supported by NEBourhoods Transition Hub. Our project partnership with shaere (<https://shaere.net/>) will be utilized to attract interested individuals for the scholarships. Part of the shaere is the social institution “Community Kitchen” that serves as an interim use in the former Allianz building. The former office building with various spaces invites residents of Neuperlach, creatives, and interested individuals to participate, co-create, and learn through events, workshops, and much more.

During the project duration, we are renting two office spaces at shaere to expand our partnership and gain access to the community. With its diverse offerings and initiatives, the shaere building is one of Munich's largest bottom-up educational and cultural landscapes. The shaere building also includes a small workshop that will be contacted to discuss potential collaboration opportunities. Additionally, informational flyers are displayed in the building, and events are utilized to inform about the NEBourhoods scholarships and their possibilities.

- **Collaboration with key stakeholders - ZAK**

In addition, we are in exchange with the organization "ZAK - Zusammen in Neuperlach, Vereine für Gemeinschaftswesenarbeit und Stadtteilgestaltung e.V." (ZAK - Together in Neuperlach, associations for community work and neighbourhood design e.V.) that significantly contributes to attracting target groups for the NEBourhoods scholarships. ZAK (<https://www.zak-neuperlach.de/>) has been a project of community work for around 35 years. It originated from a resident initiative with the goal of making the living environment more livable. Over the years, several sub-projects have emerged, which have now become an integral part of the neighborhood's infrastructure. In addition to the neighborhood office and

meeting point at Adenauerring 12, there is a resident meeting point next to Theodor-Heuss-Platz with a resident café, ZAK Spielhütte (children's playhouse), and a meeting point for open children and youth work (see Figure 4). Many children and young people are reached through this network of relationships, activities, and meeting places. Conversely, parents of children and young people find projects and low-threshold counselling at the ZAK office. The network of relationships, activities, and meeting places integrates both adult residents and children and young people from various social and ethnic backgrounds.



*Figure 4: ZAK premises near Theodor-Heuss-Platz Neuperlach; source: UTUM*

Due to the close proximity of the mobile MakerSpace to the ZAK premises, a close collaboration has been established, as combining efforts can create even more positive impact in the neighborhood. The carpenter from ZAK's children's workshop may also be able to open the mobile MakerSpace to raise awareness about the scholarships among ZAK visitors. The infrastructure of ZAK (café, toilets, storage space) will be accessible for activities within the frame of the mobile MakerSpace. The mobile workshop will be part of ZAK events, such as the upcoming summer festival in late July 2023. Collaborating with the association provides a valuable connection point to engage a wide range of Neuperlach residents in entrepreneurial activities in the neighborhood and raise awareness about the ideas of NEB as well as about the opportunity of the NEBourhoods scholarships.

- **Online communication**

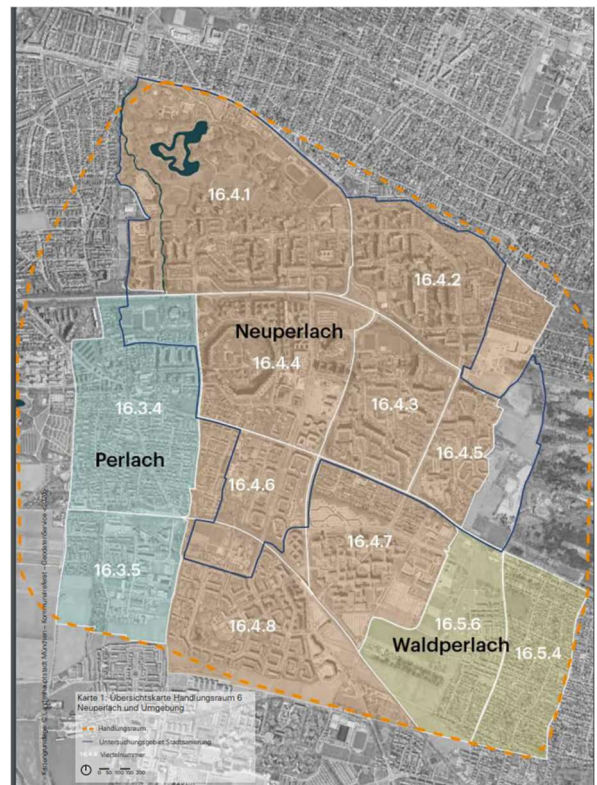
In addition to offline communication to reach the desired target audience and motivate them to apply for the scholarship positions, various online platforms will also be used to spread information about the scholarships. An information section will be available on the NEBourhoods website, and the NEBourhoods social media platforms will be used to communicate events and updates. The NEBourhoods landing page of the City of Munich will also feature information about the scholarships.

## 4.2 REGISTRATION PERIOD AND REQUIREMENTS

The registration period for the scholarship lasts from July 1, 2023, to December 1, 2024. During this period, residents of Neuperlach can submit their applications until the quota of 50 scholarships is reached.

To be considered for the MakerSpace Scholarship, applicants must meet certain criteria.

- The minimum age requirement is 16 years.
- As the project is related to the Neuperlach district, the applicant must have a residence in that specific district (see Figure 5).
- In the application form, the applicant needs to provide an initial idea they would like to realize for Neuperlach during their scholarship and/or an initial motivation for wanting to be creative in their own neighborhood.
- The idea needs to meet the NEB spirit.



*Figure 5: The action area of Neuperlach as part of the city district 16 Ramersdorf-Perlach; source: IHRK, muenchen.de*

Everyone interested in applying for a scholarship can schedule a personal consultation on-site at the mobile MakerSpace through the MakerSpace website. The purpose of the conversation is to provide information in a gender-sensitive

language about the possibilities of the scholarship and to support motivated individuals in finding ideas for the neighborhood and determining how their ideas can be realized in the larger workshops.

### 4.3 APPLICATION PROCESS AND SCHOLARSHIP DURATION

The application for the MakerSpace scholarship is done exclusively online through the MakerSpace website (<https://maker-space.de/stipendium/>). Applicants will find the option "Für Neuperlacher:innen" (for citizens of Neuperlach) under the Scholarships landing page, which leads to the application form. Additionally, on the project website (<https://www.nebourhoods.de/>), there will also be an information section about the scholarship and its application process, along with the link for registration on the MakerSpace website.

Applications can be submitted at any time between July 1, 2023, and December 1, 2024. The received applications will first be screened to ensure they meet the necessary requirements of minimum age and residence (see 4.2). Following this, each applicant will have a personal interview scheduled - if not already done through the consultation option - to discuss feasibility and provide assistance in idea generation and the link to NEB.

In cases where the idea of an applicant does not fit the project requirements and cannot be implemented in the MakerSpace, we offer our connections to Neuperlacher actors such as shaere and ZAK to assist the applicant in finding alternative paths and resources to realize their idea.

After the selection process is completed, the scholarships will be officially assigned. The recipients of the scholarships will receive all the necessary information and instructions for the next steps and will be able to book their first courses.

The duration of the scholarship for Neuperlach residents has been extended by the MakerSpace Management from 10 days to one year. This extension provides the scholarship recipients with significant added value and flexibility and allows them more freedom for the creative conception and development of solutions for the Neuperlach district. It includes free access to the workshops in Garching and Munich, as well as two free machine courses. The two courses offer the opportunity to either gain an introduction to two different machines or deepen knowledge about a specific machine using both courses solely for that machine. During the scholarship period, recipients will have access to the resources and support of the

MakerSpace to implement their ideas and work on projects that enrich the Neuperlach district.

#### 4.4 PILOT PHASE FOR THE SCHOLARSHIP PROCESS

As the people of the Neuperlach quarter is a new target group to us, the specific measures for targeting and attracting the audience will be tested in a pilot phase of three months. This pilot phase aims to evaluate our measures to reach the target audience, the registration process, and the selection procedure.

After the initial three months (July-September 2023), an internal workshop will take place in October to analyse the processes and achievements of the past months. If necessary, adjustments will be made to the registration process, selection procedure, and targeting of the audience to increase the number of scholarship applicants (see Figure 6). For example, it is possible to include an offline application option alongside the online application form for the scholarships, as it may provide greater convenience for our target audience. The pilot phase is designed to identify such necessary changes at an early stage.

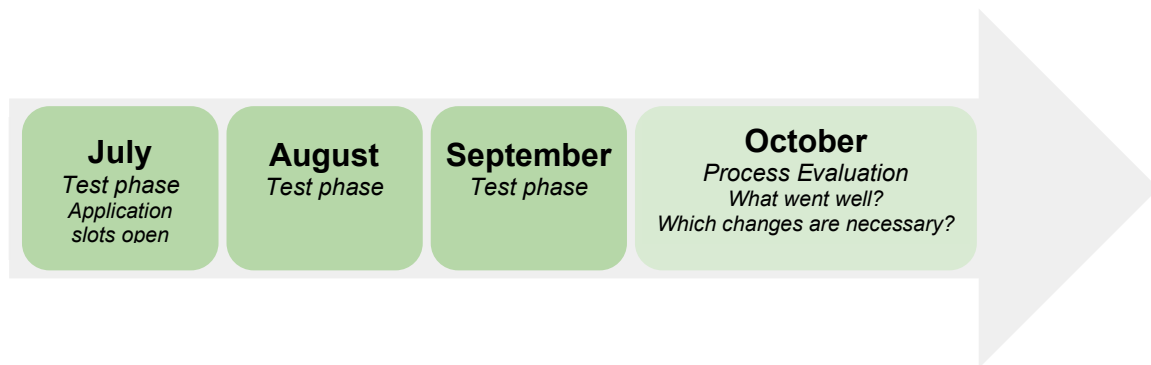


Figure 6: Pilot and first evaluation phase of the NEBourhoods MakerSpace scholarships (July-October 2023)

The progress of the remaining application period will be regularly monitored and observed to ensure smooth functioning of the process. The three-month pilot phase should have revealed all potential problems and obstacles. If new ones arise, they will be recognized, and the process will be adjusted accordingly.

## 5. CONCLUSION

The MakerSpace scholarships are an important instrument to create a low-threshold entrepreneurial offer for the citizens of Neuperlach. Through the scholarships, we aim to empower talented individuals, foster creativity, and innovation, and contribute to the development of a vibrant and inclusive community in the spirit of the NEB. By promoting entrepreneurship and co-creation, the MakerSpace scholarships align with the objectives of the EU Green Deal and the overall vision of the NEBourhoods project.

To reach the target groups, it is essential to communicate the process for getting a scholarship as simple as possible. A pilot phase is scheduled to test whether the assumptions about reaching the target group were valid and whether the offer is accepted. At the beginning of the pilot phase, in July 2023, the process for managing scholarships is established and published. The publication of this process ensures transparency and fairness in managing the scholarships. By documenting the criteria and application process for the MakerSpace scholarships, this deliverable, D 3.3 "MakerSpace Scholarship Process" offers a guide for the planned procedures and criteria.