

How to find an Intership

Student Group

First Name	Surname	Matrikel Nr.

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How to find an Internship

Be aware, that - depending on the economical situation - it might take up to 200 outreaches to find a suitable internship.

So, it is good to make a structured list (e.g. in EXCEL), to track how far the outreach proceed.

Possible Templates for Communication

Email template for a unsolicited application (Initiativbewerbung)

Betreff: Pflichtpraktikum / Praxissemester – Embedded/Elektronik – ab
<Monat Jahr> (12–20 Wochen)

Guten Tag Herr/Frau <Name>,

ich studiere <Studiengang> an der <Hochschule> und suche ein
<Pflichtpraktikum/Praxissemester> ab <Datum>.

Ich kann Ihr Team konkret unterstützen bei:

- <1> (z.B. Embedded C / STM32 / RTOS / CAN)
- <2> (z.B. Prüfaufbauten / Python Testautomation / HIL)
- <3> (z.B. PCB-Layout / Altium / Inbetriebnahme)

Kurzprofil: <1 Satz – was du schon gebaut/getestet hast>.

Anbei: CV + Notenübersicht + 1 Seite Projektportfolio.

<optional>

Ich bin auf Ihr Unternehmen aufmerksam geworden, weil <1 kurzer Bezug:
Produkt/Technologiefeld/Branche>.

Falls es grundsätzlich denkbar ist, Praktika in Ihrem Bereich zu
betreuen:

Könnten Sie mir ggf. sagen, ob es bei Ihnen eine passende
Ansprechperson gibt (fachlich/technisch)

oder ob Sie mir empfehlen würden, mich über einen bestimmten Weg zu
bewerben?

Viele Grüße

<Name>

<Tel> | <LinkedIn/GitHub> | <E-Mail>

Why this template is likely to work:

1. Recruiters skim extremely fast.
 - In an eye-tracking study, the average initial resume screen was ~7.4 seconds, see [TheLadders Eye-Tracking Study \(PDF\)](#)
 - “Good” resumes shared: clear section/title headers, job titles that pop, and bullet-style accomplishment lists (F-/E-pattern scanning). Cluttered, long-sentence layouts performed

worse.

2. German application guidance explicitly recommends short, value-first openings, see [StepStone: Einleitungssatz Bewerbung](#)
 - opening should be max 2-3 sentences
 - avoid generic phrases
 - explicitly “Mehrwert betonen”.
3. For Germany, email+PDF routing/forwarding is the normal “plumbing” for SMEs too, see [Absolventa: Bewerbung per E-Mail](#).
 - for email applications (incl. Initiativbewerbungen), combine the whole application into one digital file (PDF), because it can be forwarded internally quickly to the right person.
 - The email subject should clearly state what you apply for so it can be assigned correctly.

Phone script (30 seconds)

```
Hallo, mein Name ist <Name>, ich studiere <Studiengang> an der
<Hochschule>.
Ich habe Ihnen eine kurze Initiativbewerbung für ein Praxissemester
geschickt (Embedded/Elektronik).
Ist das bei Ihnen angekommen – und wer wäre die richtige technische
Ansprechperson?
```

via Job Portals

In the following some relevant search engines are shown.

Be aware that the following links are already partially filtered by:

- vicinity to Heilbronn
- Praktikum

You might also look for keywords like

- Elektrotechnik, Elektronik, Electronics
- Embedded, Microcontroller
- ECAD,
- EMC, EMV

The following list covers relevant job search sites:

1. [Stepstone](#) - strong in Germany; good filters by city/region
2. [Xing Jobs](#) - Germany-heavy.
 - Refine the search by the “hamburger menu” with
 1. Search radius: as you wish
 2. Employment type: Student
 3. Career level: Student/Intern
3. [LinkedIn Jobs](#) - best for “embedded/firmware” and direct networking
4. [Jobware](#)
5. [GlassDoor](#)

6. [XING - Praktikum Jobs](#)
7. [Absolventa](#)
8. [Bundesagentur für Arbeit - Jobsuche \(Praktika\)](#) - often overlooked, but does not have as much results
Refine the search by clicking onto "Arbeit" below "Was suchen Sie?" and change it to "Praktikum/Trainee/Werkstudent"

"Indirect" directories (great for SMEs)

The following websites are good spots to find small and medium enterprises ("**SME's**") which might look for engineers.

An unsolicited application to them would a a good idea. 

1. [get in Engineering job search](#)
2. [Fachverband microtec-suedwest](#)
3. [Clusterportal BW](#)
4. [Korporative Mitglieder des VDE Württemberg](#)

Also via the B2B supplier directory one can find EMS/automation integrators fast:

1. [wlw.de: Elektronik-Fertigung \(Heilbronn\)](#)
2. [wlw.de: Elektronik-Fertigung \(Stuttgart\)](#)
3. [wlw.de: Elektronik-Fertigung \(Karlsruhe\)](#)

Additionally, exhibitors are companies which are actively selling & building new products. They often hiring quietly.

also companies from there are suitable for an internship

- [embedded world exhibitors](#)
- [SPS \(automation\) exhibitors](#)
- [Control \(quality/testing\) exhibitors](#)
- [Motek \(production/automation\) exhibitor directory](#)
- [All About Automation](#)
- [Expo for Electronics Manufacturing](#)

Google operators

Keywords

Suitable keywords for electronics topics:

- Entwicklungsingenieur, Elektronikentwicklung, Hardwareentwicklung, Automatisierung,
- Prüftechnik, Prüfstand, Testautomatisierung, Hardware-in-the-Loop
- Mikrocontroller, Embedded Software, firmware
- EMV, EMC, EMS, Pre-Compliance
- Leistungselektronik, power electronics, DC/DC, Inverter, Motorsteuerung, BMS, Batterie Management, SiC, GaN, power electronics, Schaltnetzteil
- PCB Layout, Leiterplattenlayout, Altium, kiCAD, ECAD, Leiterplattenbestückung,

Suitable keywords for roles:

- ("Internship" OR "Working student" OR "Bachelorarbeit" OR "Masterarbeit" OR "Abschlussarbeit" OR "Pflichtpraktikum" OR "Werkstudent" OR "Praxissemester" OR "Praktikum")

Add the region smartly

Append one of these blocks:

- (Heilbronn OR Neckarsulm OR "Region Stuttgart" OR Ludwigsburg OR Böblingen OR Sindelfingen OR Esslingen)
- (Karlsruhe OR Ettlingen OR Bruchsal OR Pforzheim OR "Technologieregion Karlsruhe")
- (Mannheim OR Heidelberg OR Ludwigshafen OR "Rhein-Neckar")

filter urls

Often the URLs of the companies have "job-relevant" keywords, like:

- inurl:karriere
- inurl:jobs
- inurl:stellen

Examples search strings

Search **career pages** directly:

- ("Praktikum" OR "Praxissemester" OR "Werkstudent") (Embedded OR Elektronik OR Prüftechnik) (Heilbronn OR Stuttgart OR Karlsruhe OR Mannheim) inurl:karriere
- (Praxissemester OR Abschlussarbeit) Elektronik inurl:jobs
- (Prüftechnik OR EMV OR EMC) Praktikum inurl:stellen

Exclude giants (reduce noise):

- ("Praktikum Embedded" Stuttgart) -Bosch -Porsche -Mercedes -Daimler -SAP -ZF -Continental

General search for suitable companies

- ("Leiterplattenbestückung" OR EMS OR "Elektronikfertigung") (Heilbronn OR Karlsruhe OR Mannheim)

Search LinkedIn via Google

- site:linkedin.com/jobs ("Werkstudent" AND Embedded AND Stuttgart)
- site:linkedin.com/company ("Elektronik" AND "Karriere") Stuttgart

Examples for SME Jobs

Examples for possible jobs beyond the big players (from 16.12.25):

1. ATS Automation - Praktikum in Engineering & Design
2. Schulz Group - Praktikant / Werkstudent (m/w/d) Produktentwicklung – Konstruktion & Elektronik

3. Carrybots - Installation und Deployment Mobile Roboter, Softwareentwicklung Robotik ROS
4. VEGA Grieshaber - Abschlussarbeit/Praktikum/Werkstudententätigkeit: Hardware oder Software im Bereich Embedded Systems

Job Fairs

Important: dates shift slightly each year - start checking **Aug/Sep** and bookmark the “event calendar” pages.

A quick list of the job fairs that regularly deliver SMEs and “hidden gems”

- **MeetING (HHN, Heilbronn)** - engineering-focused, very regional (Oct)
- **CareerContacts (HKA, Karlsruhe)** - multiple days, includes engineering faculties (Oct)
- **IT-Mittelstandstag (HS Esslingen)** - explicitly SME-focused (Nov)
- **StepIn (Uni Stuttgart)** - all engineering, annual (Nov)
- **bonding Firmenkontaktmesse Karlsruhe** - big student fair; many suppliers/SMEs participate (late Nov)

Calendar (between 01.10 - 31.12, recurring / usually each year)

When (usually)	Event	Where	Why it's useful for electronics/embedded internships	Link
October (early/mid)	MeetING (Firmenkontaktmesse für Ingenieur-Studierende)	Hochschule Heilbronn (TechCampus)	Regional employers, suppliers, engineering services; easy to ask for Praxissemester/Praktikum	MeetING (HHN)
October (20-23-ish)	CareerContacts	Hochschule Karlsruhe (HKA)	Multi-day career fair; includes engineering & IT; good for “quiet hiring”	CareerContacts (HKA)
October (mid/late)	Karrieretag Karlsruhe (open fair)	Karlsruhe (e.g., Schwarzwaldhalle)	General fair, but often many regional SMEs + direct CV checks	Karrieretag Karlsruhe (Stadt-Kalender)
October (mid/late)	CareerSprint Mittelstand	TH Mannheim	Campus-based “Mittelstand” format; good for internships/theses	CareerSprint Mittelstand (TH Mannheim)
October (mid/late)	Aalener Industriemesse (AIM for students)	Hochschule Aalen	Classic engineering student fair; many tech companies from BW	AIM for students (Aalen)
Oct-Dec (lecture series)	Hohenheimer CareerDays	Universität Hohenheim (Stuttgart)	Company talks + networking; some industrial/tech companies show up	Hohenheimer CareerDays
November (early)	MeetIT	Hochschule Heilbronn (TechCampus)	Great for embedded/IoT/software-near-hardware internships	MeetIT (HHN)
November (early, Wed)	IT-Mittelstandstag	Hochschule Esslingen	SME-heavy by design; ideal for “hidden gems”	IT-Mittelstandstag (HS Esslingen)
November (mid)	Informatik-Kontaktmesse	Universität Stuttgart (Informatikgebäude)	Not only IT: many embedded/automation employers recruit here too	Informatik-Kontaktmesse (Uni Stuttgart)
November (mid/late)	StepIn - Firmenkontaktmesse	Universität Stuttgart (Campus Vaihingen)	Annual engineering fair; practical for Praktikum/Bachelor/Master topics	StepIn (Uni Stuttgart/TRACES)
Late November	bonding Firmenkontaktmesse Karlsruhe	Karlsruhe	Very big student fair; many SMEs, suppliers, engineering services	bonding Karlsruhe
December (early)	Firmenkontaktmesse (e.g., SimTech / Uni Stuttgart)	Universität Stuttgart (Campus Vaihingen)	Often niche/tech-specific companies; good for R&D internships	SimTech Firmenkontaktmesse (example page)
December (support events)	Career Service workshops (CV checks etc.)	Uni Stuttgart / online	Not a fair, but boosts application quality fast (useful for internationals)	TRACES event calendar
December (networking)	VDE After Work Stuttgart	Stuttgart	Short networking evening; good for informal contacts + hidden roles	VDE After Work Stuttgart

ID	Company	Company name	Short description	Tags	State (Bundesland)
207	Medium	gmpgmbh	Software for pharmaceuticals – automation, control and industrial engineering (also process design and production)	Factory Automation/Mechatronics; Industrial Automation; Robotics; Industrial Research/IGT; Embedded Software; Systems Engineering; Testing/Test Automation; V&E	Sachsen-Württemberg • Bayern • NRW
212	Big	and.com	Production systems for industry/industry-oriented machinery and production equipment	Drives & Motion Control; Mechatronics; Systems; Robotics; Automation/Robotics; Systems Engineering; Testing/Test Automation	Sachsen-Württemberg • NRW
213	Medium	hobas	Building automation systems with integrated connectivity/IT devices, embedded software, firmware, electronics design (hardware/PCB), testing/test automation, cybersecurity (embedded)	Connectivity/OT Devices; Embedded Software; Firmware; Electronics Design (Hardware/PCB); Testing/Test Automation; Cybersecurity (Embedded)	Sachsen-Württemberg • NRW

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