Educating Entrepreneurial Translators: Preparing for Innovation in a Tech-Driven Global Marketplace

Ben Zhao[1], Rong Chen[2]*

School of Foreign Studies, Xi'an University of Posts and Telecommunications, Xi'an 710000, Shaanxi, China

Author to whom correspondence should be addressed.

Abstract

As the translation industry evolves under the influence of globalization, digital transformation, and artificial intelligence, translators are increasingly required to adopt entrepreneurial and innovation-oriented roles. This study explores what entrepreneurial competencies are essential for translators to thrive in today's technology-driven, globalized environment. Drawing on an extensive literature review, the paper examines the evolving role of translators, the emergence of entrepreneurship and innovation within translation studies. Five core entrepreneurial competencies are identified: digital literacy, business acumen, creative problem-solving, networking, and intercultural communication. The study also assesses the presence of entrepreneurial content in training programs, the integration of innovation labs and internships, and the role of interdisciplinary collaboration. Findings reveal a mismatch between academic offerings and market needs, highlighting tensions in pedagogical approaches and the need for curriculum reform. The paper concludes with practical recommendations for educators, institutions, and policymakers to better align translation training with the demands of an innovation-intensive professional landscape.

Keywords

Translator Education
Entrepreneurial Competence
Innovation in Translation
Curriculum Reform
Translation Training Models

1. Introduction

The translation industry is undergoing a significant transformation driven by the forces of globalization, digitization, and artificial intelligence (AI). As multilingual communication becomes a strategic asset in global markets, demand for language services has extended beyond traditional domains into fields such as localization, audiovisual media, and international business communication[1,2]. Technological advancements—including neural machine translation (NMT), large language models (LLMs), and AI-driven content workflows—are reshaping how translation

is produced and delivered, increasingly shifting the translator's role from linguistic specialist to tech-savvy, innovation-oriented professional[3]. Translators are now expected to integrate digital tools, manage complex projects, and provide value-added services such as post-editing, transcreation, and content localization[4]. This evolution blurs the boundary between language services and business services, demanding that professionals combine advanced linguistic proficiency with entrepreneurial, managerial, and technological competencies to succeed in an increasingly competitive and innovation-intensive translation ecosystem.

This paper addresses two interrelated research questions:

✍ What entrepreneurial competencies are essential for translators to succeed in a technology-driven and globalized translation industry?

✍ How are translator training programs equipping students with the competencies needed for innovation-oriented and entrepreneurial roles in the evolving language services sector?

2. Literature Review

2.1. The Evolving Role of Translators

Traditionally, translators have been conceptualized as linguistic service providers tasked with transferring meaning between source and target languages with accuracy and cultural sensitivity. Rooted in a model of solitary expertise, this view emphasized fidelity, equivalence, and textual integrity as the core measures of translation quality[5]. However, the 21st-century translation landscape has significantly broadened the scope of professional practice, positioning translators not only as language experts but also as strategic communicators, intercultural mediators, and project managers[6].

This shift reflects the increasingly complex and dynamic nature of global communication, where translators are expected to make strategic decisions that affect branding, audience engagement, and user experience. As Risku and Rogl (2022) argue from a sociocognitive perspective, translation is now embedded in collaborative, technology-mediated environments where translators must navigate institutional demands, client expectations, and multimodal content[7].

Consequently, roles such as localization specialist, terminologist, post-editor, and language consultant have emerged as extensions or reconfigurations of the translator's identity[8].

The advent of machine translation (MT)—especially neural machine translation (NMT)—has further redefined translator responsibilities. Rather than replacing human translators, MT has introduced new workflows such as post-editing, requiring professionals to act as quality controllers, evaluators, and workflow optimizers[9]. Large language models (LLMs), such as GPT and similar generative AI systems, are accelerating this trend by offering sophisticated real-time translation, summarization, and paraphrasing capabilities. While these tools expand productivity, they also demand new literacies in tool management, critical assessment, and ethical deployment[10].

In parallel, workflow automation and cloud-based translation environments have introduced project-based models of work where translators frequently interact with clients, developers, and multilingual content teams. Translation is increasingly organized as part of a broader content supply chain, requiring familiarity with project timelines, budget constraints, and collaborative digital platforms[11]. These changes suggest that the role of the translator now encompasses a hybrid professional identity—one that integrates linguistic expertise with managerial insight, technological fluency, and entrepreneurial vision.

Taken together, these developments underscore a paradigmatic shift in translation practice. To remain relevant and competitive, today's translators must go beyond textual transfer and engage with translation as a complex, networked, and innovation-driven professional domain.

2.2. Entrepreneurship and Innovation in Translation Studies

The increasing complexity and diversification of the language services industry have prompted growing interest in entrepreneurship and innovation within translation studies. This development reflects a broader reconfiguration of the translator's professional identity in response to evolving market demands, technological disruptions, and changing client expectations. As

translators move beyond traditional linguistic tasks, entrepreneurial competence has emerged as a key factor in enabling them to thrive in competitive, tech-driven environments[12].

Entrepreneurial competence refers to a set of cognitive, behavioral, and strategic capacities that enable individuals to identify opportunities, take initiative, and create value[13]. Within the context of translation, these competencies include creativity in designing language solutions, opportunity recognition in identifying emerging market needs (e.g., transcreation, accessibility services), and risk-taking in launching freelance businesses or niche services. The European Union's EntreComp framework provides a useful model, outlining a range of entrepreneurship-related skills such as innovation, financial literacy, and ethical and sustainable thinking- many of which are increasingly relevant to translators operating in globalized markets[14].

Parallel to this shift, the concept of innovation in translation has gained traction, encompassing not only linguistic creativity but also broader transformations in service delivery. Scholars such as Saldanha and O'Brien highlight three main dimensions of innovation[15]:

Product innovation refers to the creation of new or significantly improved translation outputs, including multilingual content for interactive media, accessible formats (e.g., subtitles for the deaf and hard of hearing), and culturally adapted marketing texts (transcreation).

Process innovation involves enhancements in the way translation services are produced and managed. This includes the integration of CAT tools, translation memory systems, machine translation post-editing, and cloud-based project management platforms.

Business model innovation concerns changes in the organizational or economic logic of translation services. Examples include the emergence of platform-based translation marketplaces, subscription models for on-demand translation, and collaborative team-based translation models.

Importantly, innovation in the translation field is not limited to technology adoption but often entails interdisciplinary engagement, user-centered design, and value co-creation with clients. Translators increasingly act as knowledge workers who engage in adaptive problem-solving and entrepreneurial strategy, responding

to the evolving needs of industries such as audiovisual entertainment, global health communication, and AI-assisted localization[4].

Despite these developments, the integration of entrepreneurship and innovation into translator education and professional training remains uneven. Many programs continue to emphasize linguistic accuracy and theoretical frameworks while offering limited exposure to innovation-driven or entrepreneurial learning. This gap underlines the need to reassess pedagogical priorities in order to cultivate a generation of translators who are not only language experts but also agile, innovative, and entrepreneurial professionals.

2.3. Translator Education and Training Models

The evolution of translator education has closely mirrored the broader shifts in the translation profession, moving from a traditional focus on linguistic transfer to a more competence-based, market-responsive, and interdisciplinary approach. Foundational paradigms in translator training have laid the groundwork for this evolution, particularly in Europe, where institutional frameworks have sought to harmonize pedagogical objectives with professional realities.

One of the most influential models in recent years is the European Master's in Translation (EMT) framework, developed by the European Commission. The EMT competence framework identifies six core competence areas: language competence, intercultural competence, information mining, technological competence, translation service provision, and thematic competence[16]. The EMT framework has been adopted by numerous universities across Europe and has served as a reference point for curriculum development globally.

Complementing this institutional model, scholars have advocated for a constructivist, competence-based pedagogy that emphasizes situated learning, learner autonomy, and authentic project-based experience[17]. Traditional transmission-based teaching often treats students as passive recipients. In contrast, scholars advocate for collaborative learning environments where students co-construct knowledge through real-world translation tasks. This pedagogical orientation aligns with current professional demands-such as teamwork, client communication, and the use of digital tools[18].

In response to these foundational frameworks, recent years have witnessed significant curriculum innovation aimed at professionalization and industry alignment. Universities and training institutions are increasingly incorporating modules on project management, CAT tools, localization workflows, and post-editing of machine translation output[19]. Some programs have also introduced entrepreneurship training, digital literacy courses, and interdisciplinary collaborations with departments of business, computer science, or media studies. These initiatives aim to prepare students not only as translators but as multifaceted professionals capable of navigating diverse roles in multilingual communication ecosystems[20].

However, gaps remain in translating these innovations into comprehensive educational strategies. As Hu notes, there is often a lag between market developments and curricular response, particularly in integrating entrepreneurial thinking and strategic innovation into core translation training. In many cases, translator education remains narrowly focused on text production, offering limited exposure to the economic, technological, and organizational dimensions of language services. This disconnect underscores the need for continued pedagogical reform that prioritizes market readiness, lifelong learning, and interdisciplinary competence[21].

In sum, while significant progress has been made in aligning translator education with professional expectations, the rapid pace of change in the language industry calls for more agile, integrated, and future-oriented training models.

3. Entrepreneurial Competencies for Translators

As the translation profession becomes increasingly intertwined with technological innovation, market diversification, and flexible work arrangements, the development of entrepreneurial competencies has become essential for translators seeking to adapt and thrive. These competencies extend beyond linguistic expertise to encompass a set of transversal skills that enable translators to navigate uncertainty, create value, and engage in professional innovation. This section identifies and discusses five key entrepreneurial competencies that are increasingly critical in the contemporary translation landscape. These competencies are analyzed in light of the European Entrepreneurship Competence Framework (EntreComp), which provides a structured model for understanding entrepreneurship as a learnable and transferable competence[14].

3.1. Digital Literacy and Tool Integration

Proficiency in digital tools is foundational to entrepreneurial success in translation. Translators must not only master computer-assisted translation (CAT) tools and translation memory systems but also navigate emerging technologies such as neural machine translation (NMT), terminology management software, and cloud-based collaboration platforms. The "Resources" area of the EntreComp framework emphasizes the importance of digital skills in mobilizing technological tools to support entrepreneurial goals. Translators equipped with digital literacy are better positioned to optimize workflows, deliver high-quality output efficiently, and offer value-added services such as post-editing, localization, or subtitling[14].

3.2. Business Acumen and Project Management

Proficiency in basic business literacy-such as pricing strategies, market positioning, legal considerations, and financial planning-alongside project management skills like time management, client negotiation, budgeting, and workflow coordination is essential for entrepreneurial translators. These competencies correspond to the EntreComp dimensions "Taking the initiative" and "Planning and managing," emphasizing goal-setting, action-oriented behavior, and optimal resource allocation. Managing complex projects while meeting client expectations is central to sustaining a successful translation practice in a competitive global market[14].

3.3. Innovation and Creative Problem Solving

In a profession increasingly shaped by automation and commodification, the capacity to innovate and solve problems creatively is a key differentiator. Translators are often called upon to handle complex, multimodal, or culturally sensitive tasks that require original thinking and adaptive strategies. This aligns with EntreComp's

emphasis on "Creativity" and "Coping with uncertainty, ambiguity and risk," competencies that enable individuals to design novel solutions, test new approaches, and respond flexibly to dynamic demands[14]. For example, transcreation, branding adaptation, and multilingual content strategy development all require a combination of linguistic creativity and market awareness.

3.4. Networking and Platform Entrepreneurship

Modern translators increasingly rely on digital platforms and professional networks to access clients, showcase expertise, and build sustainable careers. Whether through global freelancing platforms, professional associations, or social media, translators must develop the competence to create and maintain productive relationships. The EntreComp framework refers to this as "Working with others" and "Mobilizing others," underlining the role of collaboration, persuasion, and community-building in entrepreneurial activity. Platform entrepreneurship, in particular, empowers translators to curate personal brands, develop niche markets, and co-create services with clients and peers in transnational environments[22,23].

3.5. Intercultural Communication and Global Orientation

Given the global nature of translation, intercultural competence is both a linguistic skill and an entrepreneurial asset. Translators must navigate diverse cultures, adapt communication to various markets, and track industry trends. EntreComp highlights this through the transversal skills of "Reflect" and "Identify opportunities," supporting a global mindset essential for cross-border collaboration and multilingual communication[22].

Taken together, these competencies reflect a multidimensional understanding of entrepreneurship as applied to the translation profession. They call for a pedagogical shift that integrates entrepreneurial thinking into translator training, encouraging students to see themselves not only as language experts but also as agile, opportunity-oriented professionals capable of shaping their own career trajectories. The next section will examine how translation education programs are responding to these needs and to what extent these competencies are being cultivated in academic and

professional training settings.

4. Translators' Education for Innovation-Oriented Roles

In response to the growing demand for entrepreneurial and innovation-oriented competencies in the translation industry, translator education programs have begun to diversify their pedagogical approaches. While traditional curricula have focused primarily on linguistic accuracy, cultural competence, and translation theory, many institutions are now attempting to incorporate elements of entrepreneurship, technological innovation, and professional versatility. This section critically assesses current educational practices, highlighting both promising developments and persistent gaps between academia and industry expectations[12].

4.1. Presence of Entrepreneurial Courses and Modules

A growing number of translator training programs have introduced entrepreneurship-related content, either as standalone modules or integrated into broader professional practice courses[12]. These components typically address topics such as freelance business management, client negotiation, market positioning, and project budgeting, which are increasingly viewed as essential for translators navigating today's competitive, technology-driven markets. *The European Master's in Translation (EMT) Competence Framework* explicitly incorporates entrepreneurial and service provision competencies, emphasizing that translators should be capable of marketing their services, negotiating with clients, and managing business-related activities[24]. As a result, several EMT-affiliated institutions such as KU Leuven have integrated business-oriented modules into their curricula[25]. Content analyses further support this trend. For example, there is a growing presence of project management and entrepreneurship in EMT-aligned programs[24]. Nonetheless, such offerings remain unevenly distributed, particularly beyond the EMT network. Many non-European or smaller institutions continue to lack structured training in entrepreneurial competencies, indicating a persistent gap between academic curricula and the practical demands of the contemporary language

services industry[16].

4.2. Integration of Innovation Labs, Capstone Projects, and Internships

More progressive translator education programs have incorporated experiential learning formats such as innovation labs, capstone projects, and industry internships to bridge the gap between academic instruction and real-world practice[20]. These formats provide students with opportunities to work on authentic translation tasks, use professional technological tools (e.g., CAT tools, AI-assisted translation), and operate in collaborative, project-based environments that reflect contemporary industry workflows. For instance, the Faculty of Translation and Interpreting at the University of Geneva offers simulated translation bureaus and project-based modules in which students manage real clients, negotiate deadlines, and deliver professional translations [26]. The approach aligns with broader pedagogical trends in translator education that prioritize situated learning and professional preparedness.

4.3. Gaps Between Educational Offerings and Industry Needs

Despite these advancements, a disconnect remains between current educational offerings and the rapidly evolving demands of the translation market. Many programs still underemphasize entrepreneurial thinking, innovation management, and interdisciplinary collaboration[27]. Moreover, students often lack sufficient exposure to platform-based work models, agile project management, and emerging business models in the language services industry. Educators may also face constraints related to institutional inertia, lack of business training, or limited access to up-to-date industry tools and platforms.

Furthermore, formal assessment mechanisms often prioritize linguistic and textual competence over creativity, adaptability, or problem-solving, which are increasingly valued in professional contexts. As a result, graduates may enter the workforce with strong language skills but insufficient preparation for the entrepreneurial and innovation-oriented challenges they are likely to encounter.

Despite recent advancements, a persistent disconnect

remains between current educational offerings and the rapidly evolving demands of the translation market. Many translator training programs continue to underemphasize entrepreneurial thinking, innovation management, and interdisciplinary collaboration[12]. While digital tools and project-based learning have been partially adopted, students often lack sufficient exposure to platform-based work models, agile project management, and emerging business models in the global language services sector[28]. This gap is compounded by institutional limitations: educators frequently report constraints such as curricular rigidity, lack of training in business-oriented pedagogy, and limited access to up-to-date industry tools[29].

Many programs continue to prioritize linguistic and textual competence in assessments, overlooking soft skills like creativity, adaptability, and problem-solving, which are qualities increasingly sought by employers[24]. As a result, graduates often possess strong language skills but lack preparation for the entrepreneurial and interdisciplinary demands of today's translation industry[30].

4.4. Role of Interdisciplinary Collaboration

One promising direction in bridging the gap between academic training and industry needs lies in fostering interdisciplinary collaboration between translation programs and other academic departments, particularly in business, computer science, media, and design. Scholars such as Kiraly advocate for collaborative and project-based pedagogies that allow students to engage in cross-disciplinary innovation and problem-solving[18]. Joint modules or cross-listed electives can expose translation students to entrepreneurial mindsets, innovation methodologies (e.g., design thinking), and technical skills relevant to digital content creation, localization engineering, and data analysis[2].

Examples of such initiatives can be found at institutions like the University of Maryland, where translation students participate in interdisciplinary localization and project management tracks that include practical translation and localization practicum experiences, and Monash University, where translation students gain industry experience through internships and engagement with partners such as Chin Communications[31,32]. These collaborations not only

foster real-world problem-solving but also cultivate interdisciplinary fluency and global orientation which are both increasingly crucial for success in multilingual and innovation-intensive industries.

In sum, while translator education is evolving to meet industry expectations, reform remains uneven and constrained by traditional pedagogical paradigms. Preparing graduates for innovation-oriented roles requires more flexible, cross-disciplinary, and future-facing educational frameworks that align with the hybrid demands of today's language services sector.

5. Discussion

The findings presented in this study reveal a growing awareness within translator education of the need to equip students with entrepreneurial and innovation-oriented competencies. Programs in various regions—particularly those aligned with the EMT framework—are beginning to respond to the changing demands of the language services industry by integrating components such as business training, digital tools, and real-world project experience. However, the alignment between education systems and the full spectrum of required competencies remains partial and inconsistent.

5.1. Matching Education with Market Demands

The study suggests that educational institutions have made meaningful strides in promoting digital literacy, project-based learning, and intercultural communication. These competencies are relatively well-represented in contemporary curricula and reflect an ongoing shift toward practice-oriented instruction. Yet, other equally crucial competencies—such as opportunity recognition, business innovation, risk-taking, and platform entrepreneurship—are less systematically addressed. These gaps are particularly notable in programs that continue to privilege traditional notions of translator expertise rooted primarily in linguistic accuracy and textual fidelity.

Moreover, while some institutions have introduced entrepreneurship modules or partnered with external organizations to offer internships, few programs offer sustained, cross-disciplinary learning experiences that foster innovation mindsets and value creation capabilitie[27]. This uneven development suggests that translation education is still in the early stages of adapting to the broader conceptualization of the translator as an entrepreneurial knowledge worker.

5.2. Tensions in Pedagogical Approaches

A key challenge in bridging this gap lies in the tension between traditional translation pedagogy and the entrepreneurial orientation required by the modern industry. Translation studies have long prioritized the acquisition of linguistic, cultural, and textual competencies, often within a theoretical or philological framework. This pedagogical legacy, while valuable, can inhibit the incorporation of business-oriented or innovation-driven content, which may be perceived as peripheral or outside the domain of translation proper.

Educators themselves may feel underprepared to teach entrepreneurial skills, particularly if they lack experience in freelance work, project management, or digital entrepreneurship. Institutional constraints—such as rigid curricula, limited faculty development opportunities, and disciplinary silos—can further limit the capacity to implement reform. As a result, there is often a mismatch between institutional capabilities and professional expectations, leaving graduates underprepared for the realities of platform economies, AI-mediated workflows, and dynamic market conditions.

5.3. Opportunities for Reform

Despite these challenges, several promising pathways for educational reform have emerged. First, curriculum redesign should focus on embedding entrepreneurial learning objectives across core translation courses, rather than relegating them to elective or peripheral modules. This might include the use of authentic project briefs, client simulation exercises, and innovation challenges that require students to develop solutions for real-world problems.

Second, educator training and professional development are essential to enable instructors to confidently deliver content related to business strategy, digital innovation, and interdisciplinary collaboration. Workshops, industry partnerships, and faculty exchanges with business or engineering departments can support this upskilling process.

Third, institutional partnerships—particularly with industry stakeholders, technology providers, and start-up incubators—can offer students access to tools, mentorship, and experiential learning environments that are directly relevant to entrepreneurial practice. Joint initiatives across faculties (e.g., business, computer science, and media studies) can foster an integrated learning ecosystem that mirrors the collaborative, cross-functional nature of contemporary translation work.

Taken together, these insights underscore both the urgency and the possibility of reforming translator education to meet the entrepreneurial and innovation-related demands of the profession. The next section will summarize key findings and provide concrete recommendations for aligning education with the evolving landscape of the global language industry.

6. Conclusion and Implications

This study has examined the evolving demands of the translation profession in the context of globalization, digitization, and automation, with a particular focus on the need to cultivate entrepreneurial and innovation-oriented competencies in future translators. Five key competencies—digital literacy, business acumen, innovation capacity, networking, and intercultural orientation—are identified as being increasingly essential for professional success in a tech-driven global marketplace.

While promising developments are evident in certain translator education programs—such as the integration of digital tools, project-based learning, and limited entrepreneurship modules—the alignment between educational offerings and industry demands remains partial. A notable tension persists between traditional pedagogical models, which emphasize linguistic and textual competence, and the emergent need for broader professional versatility and innovation. The findings highlight significant opportunities for reform across multiple levels of the translation education ecosystem.

Educators should work toward embedding entrepreneurial thinking and innovation practices throughout the translation curriculum. This includes integrating real-world case studies, client-based projects,

platform-based translation experiences, and exposure to agile workflows. Pedagogical approaches should foster initiative, creativity, and problem-solving while equipping students with practical skills relevant to freelancing, localization management, and content innovation.

Academic institutions must support interdisciplinary, market-oriented translator education by creating stronger linkages between translation programs and departments of business, computer science, or media studies. This can be achieved through cross-listed courses, collaborative capstone projects, shared innovation labs, and strategic partnerships with language service providers (LSPs), start-ups, and technology firms. Institutions should also prioritize faculty development in entrepreneurial and digital pedagogy to ensure teaching staff are equipped to guide students in these emerging areas.

Policymakers and accreditation bodies should promote flexible and future-ready training frameworks that go beyond traditional models of linguistic competence. Policies should incentivize curriculum innovation, foster alignment with industry standards (e.g., EMT, EntreComp), and support the development of professional networks between academia and the translation industry. Funding schemes could further encourage cross-sector collaboration and the integration of digital and entrepreneurial modules into translator training programs.

Future research could build on this study by conducting comparative analyses across regions, longitudinal studies of curriculum reform, or quantitative surveys of graduate outcomes to assess the long-term impact of innovation-oriented education. Additional work is also needed to explore the role of AI and platform economies in shaping entrepreneurial opportunities for translators, and how these developments can be better reflected in training models.

As the translation industry continues to evolve in complexity and scope, translator education must rise to the challenge of preparing professionals who are not only linguistically skilled, but also entrepreneurial, adaptable, and innovation-driven. The future of translation will belong not only to those who can navigate languages, but to those who can also navigate markets, technologies, and change.

Disclosure statement

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